



BLENDED LEARNING METHODOLOGY



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Territories of use of EDUBOT/EDUBOT

How does the EDUBOT EDUBOT methodology work?

The pandemic due to COVID-19 has forced the world to switch from offline to online. Education was no exception. But the forced situation highlighted the disadvantages, but also the advantages, of online forms of education.

During these times, the number of superiors who promoted online education and accountability increased.

Some interfaces made it possible for teachers to present the course material online, while others allowed it to be assessed online, in a test-like manner, and to test the acquired knowledge.

The *EDUBOT* interface and the methodology behind it are specific compared to these interfaces, it tries to combine their advantages through adaptive learning.

EDUBOT is an open LMS/CAT system.

What does LMS and CAT system mean?

Acronym LMS is for Learning Management System and CAT is for Common Authentication Technology. It is a system for creating interactive personalized learning materials for students based on adaptive learning.

This interface cannot be used for all subjects, as there are subjects and study materials for which the online interface supported by artificial intelligence is not suitable for teaching and testing the acquired knowledge, e.g. in the case of essay writing and poem analysis, since in such cases the answers are subjective, there is not only one good solution.

EDUBOT methodology is based mainly on an adaptive learning method, and this is what makes the EDUBOT interface unique.

What does the blended learning methodology mean?

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Blended learning is nothing less than a mixed learning model, which combines online and personal forms of learning.

This method is based on the recognition that each person learns differently, can acquire knowledge at a different pace, different subjects and areas cause problems for them, and that some need more and some need less practice.

Benefits of blended learning and studying

• Flexibility:

The online elements allow students to progress at their own pace and manage their schedules flexibly.

• Personalized learning:

Online platforms often allow learners to work at their own pace and tailor the learning experience to their own needs. In addition, students can easily return to the material and repeat if necessary.

• Increased accessibility:

Online elements allow students to access educational materials at any time, so even those who are physically away from educational institutions can participate in learning.

• Interactive learning:

Online tools such as videos, pdf files, and other creative form of learning materials wich supports studing can make learning more interactive, allowing students to acquire new knowledge in different ways.



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• Enhanced teacher-student interaction:

Online platforms often provide an opportunity for teachers to more easily track student progress and provide feedback. During face-to-face meetings, live discourses and direct feedback provide opportunities for deeper understanding.

• Differentiation between students according to their needs:

The teacher can distinguish between students based on performance and learning needs, and classify them into clusters based on this, in response to the actual need that individual students need to master the curriculum.

• Efficient use of time:

The teaching time can be used more efficiently, as the acquisition of theoretical knowledge can be done in advance with the help of online materials, so that during personal lessons they can concentrate more on practical application and problem solving.

• Increasing motivation and engagement:

Online forms of learning can often be more motivating for students because they offer varied and interactive materials, and students can often progress at their own pace, which can increase the learning experience and than the engagement as well.

• Cost effectiveness:

Blended learning can reduce costs associated with on-site courses. Access to online materials allows students to spend less time in the classroom or spending money for tutoring.

The blended learning method provides excellent opportunities for both teachers and students. It allows teachers to assess the students' knowledge and compile a set of tasks that best matches the goal they want to achieve.

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The teacher can also monitor the progress of the students and easily determine what causes the student to get stuck. So, during the online part, those deficiencies can be identified, which can be eliminated during the face-to-face part.

The EDUBOT interface based on the blended learning methodology is helpful for students, because they can progress with the learning of the curriculum according to their individual needs and rhythm of development. Those students who understand a task sooner are not bored while the others practice the curriculum, but can progress at their own pace. Those students who need more time to master the course material can practice through supporting tasks, and supporting materials. During the face-to-face Blended learning is practically a combination of classical educational methodology and online methodology.

What are the typical educational situations when EDUBOT can be the most useful?

The EDUBOT interface can be useful for teachers in many cases, but we recommend its use mostly in cases where students have to learn a large amount of course material, when they are preparing for an entrance exam or a major exam.

The interface can also be used usefully if there is a big difference between the students' knowledge, or if one or more students are about to fail. In addition, the interface can also be useful for teachers because they can complete the same test with students even in cooperation within a school, the results are immediately visible and can be analyzed, and learning routes can be designed according to the needs of the students (more on the importance and technical implementation of these later we write).

It can be also very useful in cases that the students have to learn more complicated and complex curriculum, where it is strongly noticeable that one student progresses faster, while others progress more slowly with a particular curriculum section.

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What are the comparative advantages of the EDUBOT interface vs. other platforms?

Compared to other interfaces or platforms methodologies, the use of **EDUBOT interface** has many advantages:

• application of AI

the AI helps the student 24/7

• ideal structure for blended learning methodology

EDUBOT interface has a structure which make it ideal for practicing blended learning methodology (by creating adaptive learning routes and clusters).

• individualization

This methodology enables the students to progress with the learning and practice of the curriculum in accordance with their individual abilities and knowledge level.

• efficient

The EDUBOT interface can be used to prevent a student from getting bored during class or losing interest, as students individually follow different routes while learning and practicing the course material, according to the pace at which they understand and practice the given course material. In the same way, by using the interface, it is possible to prevent a student from falling behind his peers if he understands a part of the curriculum more difficult or slower, since thanks to adaptive learning, he can progress at his own pace, practice the problematic part of the curriculum, and possibly use materials that help understanding.

• creating adaptive routes

The interface is suitable for creating adaptive routes, so learning routes suitable for all students can be created. On most online learning platforms, all students follow the same route. They do the same tasks, the same number of tasks from a certain part of the





curriculum, but the EDUBOT interface is meant to promote individualization meanwhile it is also suitable for creating linear learning routes.

• continuous feedback for the student

The interface is suitable for the routes to be designed in such a way that if a student solves a task incorrectly, another practice task has to be solved, and if in this case he or she encounters difficulties, various forms of support materials - pdf file, video, etc. - will help the student to get an explanation for understanding and mastering the course material. In this way, the student also receives immediate feedback if a typical task or if a part of the course material has not been mastered or has not been mastered properly, and even receives immediate help at the same time.

• continuous feedback for the teacher

With a few clicks, the teacher can see how much time a given student spent on a specific part of the curriculum, how quickly he completed which task, how much time a student spent viewing materials explaining the curriculum. On the interface, the user (teacher) can also see whether the course material caused difficulties for the students because they did not spend enough time reviewing or processing the material or because they did not looked at the supporting materials, or they would need more practice or other explanations.

The teacher can also see how much time a particular member of the group spent on the given route in relation to the group. The diagram below shows such a statement. The blue color shows the average learning time of the group, while the red shows the time spent by the group member on each route.



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Time spent studying in routes compared to the average of the group

Útvonalakban tanulással töltött ido csoport átlaghoz viszonyítva



Result per route compared to the group average Útvonalonkénti eredmény a csoportátlaghoz képest



• immediate help with problematic parts of the curriculum

One of the advantages of adaptive teaching is that students follow their own, independent learning route, which means that the parts of the curriculum that are easier for the students can be completed sooner, while the parts of the curriculum that prove to be more difficult for students, video and other explanations and additional help are

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available. which means that if a student has a problem with one type of task, it can be given a similar practice task, or if they cannot solve that, helpful materials, pdfs or explanatory videos can be included in the route.

From the statistics the teacher can see how much time the given student spends on each part of the curriculum, as well as which part of the curriculum causes problems for the given student compared to the group.

The teacher can also view the student's performance in relation to the individual routes, in relation to the group average. From this, the teacher can also see what the performance of the given student is made up of, which routes cause difficulties, and in which ones the student performs better compared to the group average.

These statements and reports can also be of great help to teachers when classifying students into clusters for the face to face lessons, as they can classify students into a specific cluster based on which parts of the curriculum cause them difficulty.

Using AI in frame of the interface

Why is it good to use AI/chatbot?

The special feature of the EDUBOT interface is not only outstanding because of the blended learning methodology, but also due to the chatbot, which is meant to make the situation of students and teachers easier.

But let's see how AI can help teachers and students?

FOR TEACHERS:

- It helps to create adaptive routes.
- It can facilitate many processes for teachers, as it makes suggestions, e.g. for classifying students into clusters. In this case, the teacher has to decide whether to accept the proposal made by the AI or not and create the clusters by themselves.





FOR STUDENTS:

• AI or chatbot is available 24/7

While the student can only ask for help from the teacher during a specific period of the day, typically within the framework of the lesson, preferably in writing, by e-mail or other means of communication, in this case it is not at all certain that an answer that facilitates the learning process will arrive immediately, until then, AI is available to students 24/7. Thanks to this, if the student gets stuck while completing the route, the AI assistant will help, making the teacher's work easier, but also the student's situation. So the AI helps solving doubts.

• AI-Powered Adaptive Learning Routes

The AI assistant designs individual learning routes that allow teachers to navigate adaptive learning routes tailored to their abilities and current knowledge. The artificial intelligence assistant guides the teacher through the learning process, selecting the appropriate tasks within the task system, and provides assistance in the form of the most effective supportive tasks and explanations as needed.

Basic definitions and the structure of the content material

During the discussion of structure and methodology, it is essential to clarify a number of recurring technical and methodological terms and definitions.

As a result, in this chapter we will introduce a few basic definitions and the structure of the content material.

Learning units

Learning units are the components of modules.

• Learning units are grouped into several lists:



- my desktop contains the units that are not added to a module, new units can only be created in desktops.
- shared desktop contains shared units that are not added to a module, shared desktops are desktops of groups. The users with <u>edit content permission</u> in the group can access the group's desktop and view, edit, copy learning units within the group. Shared desktops are lists of shared learning units that are not added to a module. New units can only be created in desktops.

Depending on their type, learning units can be loaded with content and questions. At this level of content you can edit, copy and share learning units.

- my learning units in modules contains shared learning units in modules,
- shared learning units in moduls other users public learning units.

Module is a learning material consisting of several learning units. Modules can be added to learning routes which can be played by students. A module is divided into blocks and difficulty levels. Learning units are added to difficulty levels within the module.

Modules

Modules are learning materials consisting of several learning units. Modules can be added to learning routes which can be played by students. A module is divided into blocks and difficulty levels. Learning units are added to difficulty levels within the module.

- Modules are grouped into several lists:
 - o my modules,
 - o modules shared with me,
 - public modules.

My modules can be catalogued in folders and subfolders. Within a module, blocks and difficulty levels can be created. At this level of content it is possible to assemble the learning material into a more complex form: the learning units already created can be dragged into each level of



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difficulty of the module and their order can be set. At this level of content you can edit, copy and share modules.

Learning routes

Learning routes are the playable parts of the system for students. Routes are displayed associated with groups, each route is associated with at least one group, it is created by linking to a group. One or more modules can be placed in the routes. In the advanced settings of the route, you can set the parameters for the route playback (e.g. timing, story frame, homework assignment). At this level of content you can edit, share and copy learning routes.



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	My learning units which were not shared with a group and were not added to a module.	Shared Desktop Learning units which were shared with a group i am member of but were not added	My learning units in modules My learning units which were not shared with a group from	Shared learning units in modules Learning units which were shared with a group (
	Learning unit Task screen	Learning unit	were added to a module.	member of and were added to a module.
	Task screen	Learning unit	Learning unit	Learning unit
	Superunit	Learning unit	Learning unit	Learning unit
	Task screen	Coarning unit	Learning unit	Learning unit
	Learning unit (helping)			Learning unit
	Learning unit (helping)			
	Learning unit	Invite cowo	Group	Madula
earning unit				Module
	My modules	M	odules shared	ublic modules
	Folder		Module	Module
	Subfolder		Madula	Module
	Black		Module	Module
	Difficulty level		Module	Module
	Learning unit		Module	
	Task screen Instructions, que	istions		
	Task screen			
	Learning unit		Invite coworkers	Group
	Learning unit			
	coaning dire			
	Modul			
	Modul			
	Folder			
	Folder Folder			
d module	Folder Folder		Le	arning route
ld module	Modul Telder Telder		Сгоир	arning route
1d module	Modul Felder Felder Group Learning route	Share to play	Group Permission group	arning route
1d module	Foder Foder Foder Group Learning route Module		Group Permission group	arning route
id module	Foder Foder Foder Group Learning route Module Learning unit		Group Permission group User User	arning route
id module	Fader Fader Fader Croup Learning route Module Larning unit Tark screen Tark screen		Croup Permission group User User User	arning route
ad module	Modul Folder Folder Croup Learning route Module Learning unit Task screen Task screen		Croup Permission group User User User User User	arning route
ld module	Modul reiter reiter Croup Learning route Module Learning unit Test screen Learning unit	Chare Liplay	Croup Permission group User User Demission group	arning route
fit module	Modul Folder Folder Croup Learning route Module Learning unit Task screen monutations, qualities Task screen Learning unit Learning unit	Chare to play	Croup Permission group User User Eser Permission group	arning route
Id module	Modul Felder Telder Croup Learning route Module Learning unit Task screen Trask screen Trask screen Learning unit Learning unit	Chare to play	Le Croup Permission group ver ver ver ver Permission group	arning route
lá modula	Modul Feder Feder Feder Feder Coroup Learning route Module Learning unit Learning unit Learning unit Learning unit	Share to play	Le Oroup Permission group User U	arning route
id modula	Modul Feder Feder Croup Learning route Module Task screen Task screen Learning unit Learning unit Learning unit Module	Chare to play Bend link to play	Le.	arning route

Learning units

For more definitions see: https://www.edubot.hu/classy-user-manual-teachers/definition-terms

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First steps or how to start

Registration

Registration on the interface:





- The EDUBOT interface can be used after registration.
- For that you have to visit and register on: <u>https://tanlet.classyedu.eu/register</u>
- To complete the registration, you must choose a username and password and enter an e-mail address.
- Do not forget that you have to register as a teacher on the EDUBOT interface.
- The next option to save your password and username is when, after registration, the browser offers to note the entered password and username. If we use the EDUBOT interface from a specific device, it is worth having this data memorized by the browser on this device.



Username*	
Password*	
Password*	

Email address*

Password is required

• Another common error is that the e-mail address provided is linked to an account that is not functional for some reason, e.g. out of storage. Make sure you have

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entered a working email address. *Please make sure that you have entered a valid email address and that the email address you entered is working.*

There is a special way when you can use the interface without registration, it is promotional use of the interface. About that option we are writing below.

After registration and entering the interface you will get into this platform:

CLASSY Metral Touckhold For teachers For students For parents Manual Results					Notifica	tions <mark>MÉ</mark>		EN EN	~
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users			
Search	Q Sear	ch					My Desktop		~
+ Create new									
Unit Name	Labels	In Modules	Last edited		Owner			Actions	
					Items per page: 20	0 of 0	I< <		

In order to be able to manage the interface as a teacher, it is important to click on the 'FOR TEACHERS' option in the upper left corner.

Also there is a platform for students.

It may happen that when entering the interface, the system students will be transferred to the section for teachers, if at this time we want to work on the interface, it is important to remember that they should click on the interface to the section for students.

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This option is located in the upper left corner as shown in the image below:





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For teachers	students For parents Manual Resu	ults	Notif	ications MÉ	✓ EN
	Student ap	ps: 🦁 Browser 🧯 I	DS 🔺 Android		
	Public group	s Manage groups	Family connections		
Search	Q Search				
***** **** Erasmus+	1.a. osztály	1.b. osztály	1.c. osztály		
0 TEMPUS inklúzió	1.a.	1.b.	10	524 - FEOP csr	

And platform for parents as well:

	For teachers For students	For parents Manual	Results	Notifications	MÉ	×	EN
Search		Q Search				+ Add family con	inection

Since this is a methodological manual, we will examine the use of the interface from the point of view of entry as a teacher.

GROUPS and PERMISSION

After successful registration, you can be invited to the group or you can subscribe to public (open) groups.

Let's see the important information concerning creating and joining groups.

• You can read more about the nature of groups and how to create a group and join a group here: https://www.edubot.hu/classy-user-manual-teachers/groups/overview



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 About how to creating a new group or how to edit a group you can learn more here: <u>https://www.edubot.hu/classy-user-manual-teachers/groups/creating-groups-and-group-settings</u>

First of all you have to create a GROUP, by clicking the button + Create new, as you can see in this picture:

For teache	ers For students For parents	Manual Results			Notific	ations MÉ	D ~
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users	
Search	Q Sea	rch				My own	groups
+ Create new Cro	reate a new cluster	Cluster Manager					
How to edit g	roup?						
Edit g	roup					×	
	N	ame of stude	nt group				
6.00		GROUP PIL	OT 1				
						13/128	
No.	La	anguage of st	tudent gro	up			
Upload im	nage	English		-		~	
	\subset	D Public					
	т	pe of group	subscripti	on			
	ſ	Conditional	on perm	ission		~	
Course		Free					
Save	Cancer	Conditional	on perm	ission		~	



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When you create a group, you must choose a name for the group. Here, it is worth paying attention not to choose a general group name, but one that we can easily identify even if we have already created several groups or have been invited to several groups.

It is advisable to avoid generic group names such as Mathematics or Informatics.

It is worth indicating the name of the school or its acronym, as well as the class and subject, if we teach more than one subject.

After that you should invite students or other people to the group. Groups contain members and the members are classified into so-called **permission groups**.

DIGITAL EDUCATION	thers For students For parents	Manual Results			Notificatio	ons <mark>MÉ</mark>	×	EN 🗸
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users		
Search	Q Searc	ch				Мус	own groups	~
+ Create new	Create a new cluster Cl	uster Manager						
✓ GROUP PILOT 1				EN Public	Subscription v	vithout approva	I 🔊 🔊 🛱	X X
 GROUP PILOT 1 Students 				EN Public	Subscription v	vithout approva	1 2 2 2	
GROUP PILOT 1 Students + Add permission group	-tp			EN Public	Subscription v	vithout approva	I 20 20 24	a 🖍 Ϋ a 🖌 🖬 nal users

How can a student be added to the group?

There are 3 ways how to nvite users to the group:

- by inviting external users to the group,
- by adding users to the group,
- by subscribing to a public group.



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By inviting external users to the group

In order for a student to be included in a group, an invitation must be sent to him, and the student must accept this invitation.

Invite users	5	×
Comments		
		<i>i</i>
Invitation email		
Email		+
Email	Actions	
Exit Send Invi	tation	

In this case, the students' e-mail addresses are required. It is worth noting and emphasizing to the students that they should remember which email address they use the EDUBOT interface with.





Tip:

The system can display the invitation that has been sent but is still pending, so you can check which student did not accept the invitation.

CLASSY DIGITAL EDUCATION	s For students For parents	Manual Results			Notifi	ications <mark>MÉ</mark>	► EN ►
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users	
Search	Q Sear	ch				My own grou	v squ
+ Create new Cre	ate a new cluster C	luster Manager					_
 GROUP PILOT 1 				EN Public	Subscripti	ion without approval 🛛 🔊	20 🖻 🔽 🕎
> Students						Pending invita	tions 🔬 🔼 🚺
+ Add permission group							

By adding users to the group

Another option is to adding to the group an already existing user. One user, one student or coworker can be added to more groups.

By subscribing to a public group

Keep in mind that in this case of a public group with unconditional group subscription, any user can subscribe to the group and become a member of the groups' default permission group.

Another option to enroll students in the group is by creating a **technical user**, to do so, please contact us at the following e-mail address: interregioforum@gmail.com

To learn more about how to invite an user see: <u>https://www.edubot.hu/classy-user-manual-</u> teachers/groups/add-and-manage-users-group

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Permission groups

Permission groups must be created within the groups, so that the members can manage the contents of the group. Firstly you have to invite people or students to the group and after they accept the invitation you can add them to the permission group or create a permission group firstly and invite students directly into the group.

CLASSY DIGITAL EDUCATION For teachers	s For students For parents	Manual Results			Notif	ications M	· • • • • • • • • • • • • • • • • • • •	EN 🗸
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users		
Search	Q Sear	ch					My own groups	~
+ Create new Crea	ate a new cluster C	luster Manager						
GROUP PILOT 1				EN Public	Subscript	ion without ap	oproval 🔊 🔊 🖻	4 🖍 Y
> Students							22	× 🖊 🚺
+ Add permission group								

The below mentioned permissions can be set to permission groups. Within a permission group, not only one permission can be set, but any combination of them. Any number of permission groups can also be created and one person, one student can be included in several permission groups, but it must be kept in mind that in this case the student will have the authorizations belonging to all permission groups.

Based on the classification in the permission group, the members will have different rights regarding the content belonging to the group.

TIP:

A common mistake is that one or more students are admitted to a permission group where

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they have teacher-level permissions. Always make sure students are enrolled in the correct permission group.

Permission overview - the following permissions can be set:

- Authorize shared desktop
- Copy content
- Edit group content
- Edit group data
- Managing Homeworks

- Manage users in the group
- *Play contents*
- Display report
- Use contents in the group

You have to name the role of the permission group, for example 'Students'.

TIP:

Wen creating the permission group for students, we recommend that you only grant the following permissions: play contents

- -



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Pay attention!

A frequent error is that students forget the email address they used to join the group, and another frequent error, which sometimes causes them to be unable to enter the system, is that the student who previously used the interface did not log out, so the newly arriving student will already find himself on the specified interface, but under the name of another registered student, possibly in another group. Thus, the student may not be able to find

certain content.

You can create a permission group for co-workers.



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You can create a permission group not only for students but for your co-workers or optionally for parents as well. While creating a permission group for co-workers you should decided to allow the following permissions:

- *Authorize shared desktop:* about the shared desktop you can learn more here:
- *Copy content*: if you want to allow the co-worker to copy your already created content or in case if you join the group and you wanted to copy a content you should have this permission
- Edit group content: within this permission you can edit the whole group content.
- Edit group data:
- Managing Homeworks
- Manage users in the group
- *Play contents*
- Display report
- Use contents in the group

About how to manage group settings you can learn more here: <u>https://www.edubot.hu/classy-user-manual-teachers/groups/creating-groups-and-group-settings</u>

Now we are registered, and we created a group an a permission group. Let's see how to browse groups.

Browsing groups

If we are looking for a group in the system of which we are a member, it is worth paying attention to search in a suitable range:



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For tea	achers For students For parents	Manual Results			Notifications	<mark>MÉ</mark> Molnár Éva_SK 🗸	EN 🔻
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups User	S	
Search	QSear	ch				My own groups	~
+ Create new	Create a new cluster C	luster Manager				Groups where i am Administrator	
 GROUP PILOT 1 				EN Public	Subscription without	Groups where i am	Editor
> Students						Groups where i am Student	
+ Add permission gro	oup					Groups I am inivited	d to
						Groups with pendin request	ıg join

Do not forget!

To share routes and manage users, it is essential to create groups!

Tasks, learning units

How to create a tasks, how to create learning units?

You can create your own learning unit on the For teachers/Learning Units platform by pressing the Create new button, as shown below:

CLASSY DIGITAL EDUCATION	For teachers For students For parents Manual Results							► EN
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users		
Search	QSea	rch					Shared learning	g units i 🔻
+ Create new								
Unit Name	Labels	In Modules	Last edited		Owner			Actions
					Items per page: 20	0 of 0	I< <	

By pressing the 'Create new' button, you can choose from the following options:



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Т			info@e www	edubot.hu / v.edubot.hu
		Wage(commanded) Sheal and water with the sheal Water of the shea		
Comprehension	Open question	Millionaire	Sets	Affix
A ? és a ? madarak.	a á b c de é f g h iíj k i moó h ü ü v v x y z	Vacation value v		Methyle szam a 6 és a 9 kpúsekb közös köböszöröse? ?
Fish in the water	Hangman	Boom!	Bubble monster	Math monster
A				
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		<image/>	<image/> <complex-block><complex-block><complex-block></complex-block></complex-block></complex-block>	<image/> <complex-block><complex-block></complex-block></complex-block>

About the learning unit types we are goning to write belowe.

After selecting the appropriate learning unit type, the interface below appears:



info@edubot.hu / www.edubot.hu



22 - 2						LINET THEFT PROPERTY
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Name		Advanced settings		-	Sange	LA LA
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Task der	Hereigneen	sapjától kezdődően m ogy a 4. nap végére r 0 gramm csokija volt	ninden nap még 1000 gramm. 41/241			
Tank der Gornin felesa cook cook cook cook cook cook cook coo	Hereigneen	sapjától kezdődően m ogy a 4. nap végére r 0 gramm csokija volt	ninden nap még 1000 gramm. 4/246 8/44 8/246 8/246 8/246			
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-30-



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	Text part 1		
	c) Hány gramm csokit evett meg az 1. napon?		
		240	
Correct.	Text and 2		
	4000		
		/ 40	
Connect	Text part 3		
	gramm		
		240	
• Add	text part		
Task 4			
Correct	Text part 1		
	d) Hány gramm csokija volt a fogyókúra kezdetán?		
		140	
-			
an country	Text part 2		
2	8500		
		/ 40	
Connect	Text part 3		
	gramm		
		240	
• Add	text part		
Add ne	rw task		
Conve	ert learning unit to superunit (add helping units)	SUPER	UNIT CONTE
	and a		
10	6_felv_22_gombóc_seglő		
0) Repeat main unit		
10	6,5elv,22,Gombóc Artir magyanizat		
•••	unt) Add Report main unt		
		and a second second as helders and a second second	and one can also insert the res-
-	to are complex learning and specially enabling supervisits you can add helping units (previously created learning a	a final state of the second	and how one was a set of the

By pressing the preview button, you can check how the task you created looks like. We recommend viewing this in any case, as this way possible setting errors can be filtered out.

By pressing the preview button, the task appears in this form:



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Naming units/tasks

When creating a new unit, a number of settings must be made: the name of the task, its description, etc. must be entered.

You can read more about this here: <u>https://www.edubot.hu/classy-user-manual-</u> teachers/learning-units/create-learning-unit-overview-learning-unit-types

The tasks can be related to different topics and different levels of difficulty. We also distinguish between main tasks and supporting/helping tasks.

Here is an example how the structure of the learning route looks like:

There is a topic and within the topic are different difficulty levels. Esch difficulty level contains different number of tasks, and different type of tasks (main, supporting/ helping, supporting learning material.)





TOPIC: 3. Biztonság és adatvédelem (Security and privacy)								
1. nehézségi	1. nehézségi szint -difficulty level							
The name of the task:	It's content	Chosen type or form of the task						
Safety 8.1.1.0 Online biztonság és Adatvédelem	Halmazok: Online biztonság	<section-header></section-header>						
Safety 8.1.2.0 Biztonságos internet	Kérdezz – felelek:	Bittonsäg és addividélem 1.szird. 2. föleladati: Szarinted mélyik válasz helyes? Mayeri a bizkonságos jelező? K507%j78&X*b blablabla 1234 Bodri B3fo*tt_FH Piri65						
2. nehézse	égi szint							
Safety 8.2.1.0 Cyberbullyin g (online bántalmazás) gyakori	Tilos az Á: Cyberbullying (online bántalmazás)							



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ΤΟΡΙΟ	C: 3. Biztonság és ada	tvédelem (Security and privacy)
elkövetési formái	gyakori elkövetési formái	Improvide standarden 2.szint 1 (Maladet) At intermette staltules (optimulation standarden 2.szint 1 (Maladet) At intermette staltules (optimulation staltule) Valótlanságok terjesztése. Cyber Stalking Fenyegető, megfélemlítő üzenetek küldése. Flaming Más nevének és adatainak használata. Bash boarding Online "háború", támadás, veszekedés.
Safety 8.2.1.1 Cyberbullying (online bántalmazás) gyakori elkövetési formái - segédfeladat	Kérdezz – felelek: Cyberbullying	Hittonság és adatvédelem 2 szint 1. segadífeledat: Jelőld be a leíttakra vonatkozó helyes megnevezést! Online Julados, vezetekelés: dílvős, támadó, trágár tozzászólasok nyilvános torunoko (gyakra omíne potkla, vallasi, tákodgal vta). BECSAPÁS CYBER STALKING IDENTITÁSLOPÁS FLAMING

Safety 8.2.1.2 Cyberbullying (online bántalmazás) gyakori elkövetési formái - PDF	PDF	<text><text><text><text><image/><text><text><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></text></text></text></text></text></text>
3. nehézse	égi szint	

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Safety8.3.1.0Abiztonságosinternethasználatés	Halmazok: A biztonságos internethasználat és netikett felismerése.	Biztonság és adatvédelem 2 szint 1. tőfeladat.
netikett		
Safety 8.3.1.2 A biztonságos internethasz nálat és netikett - PDF	PDF: A biztonságos internethasználat és netikett felismerése.	A biztonságos internethasználať! A biztonságos internethasznál alagvető fontossági a személyes adatok vidélme és a számítógénes: fenyegetisek vikerlikes elukisében: line néhány kulcsfontossági irányeky és típp, amely segühet: megyicében magada az internétos? • I Erős jelszvak használatol? • Hosznála és Komplextilas: Használi hoszni, komplex jelszavakat, amelyek tartalmaznak nagy. és: kisbetűket: számokat és speciális karaktereket. • Jetzőnkezető: Használi jelszkezelőt a jelszavak biztonságos tárolásihoz és kezeléséhez. • Jetzőnkezető: Használi jelszkezelőt a jelszavak biztonságos tárolásihoz és kezeléséhez. • Aktiválas: Engedelyezet a kéllépesős azonosítást minden olyan flókban, amely támogatja. Ez egy extra biztonságis rétegered. • Aktiválas: Engedelyezet a vielekesős azonosítást minden olyan flókban ellekesetős: [• Mativias: Engedelyezet a vielékesős azonosítást minden olyan flókban amely támogatja. Ez egy extra biztonságos internetiapezőket [• Mativias: Engedelyezet a vielékesős azonosítást minden olyan flókban ellekeséket [• Mativias: Engedelyezet a vielekesős azonosítást minden olyan flókban amely támogatja. Ez egy extra biztonságos internetiapezőket [• Mativias: Engedelyezet a vielekesős azonosítást minden olyan flókban amelyet támetesőket [• Mativias: Engedelyezet a vielekesőkat, unemenkátor alkalmazásokat (g). Google Authenticator). • vagy hardværet iskazatáli geős jelszöt a wi-Fi hálózatodhaz, és engedélyezed az WPA3 tikosítást. In elemetáses] • Mativiaszi iterzeli agozatál jerős jelszöt a wi-Fi háló

The given unit can be named in any way, as shown in the figure below. There are no formal restrictions on this. In order to be able to easily identify the task later, that:

EDUBOT chatb	search	Modules	Learning routes	Groups 7 Smart	Users Steps tartalo 🗸	Shared Desktops	
Q Q	Search			7 Smart	Steps tartalo 🗸	Shared Desktops	~
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58) #almappa #blokk #bo #csoport #endre #fejle	rsos esztők…		2021-04-18 21:12:27		Borsos Endre		0 🔤
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#524demo #almappa #bemutatása #blokk #	borsos		2021-03-09 18:47:20		Borsos Endre		0 💌
#1_tesztblokk #adam_ #adamlovas2 #almap	test_001 ba		2020-12-05 10:11:31		Borsos Endre		0 💌
	ác_Artúr #1_tesztblokk #6_felv_22_1_4_gomb #24) #blokk #borsos #com #edubot #endre #fejle \$38) #almappa #blokk #bo #almappa #blokk #bo #borsos #csoport #524demo #almappa #bernutatása #blokk # #1_tesztblokk #adam, #almapa #belok #adam, #adamlovas2 #almappa	doc_Artúr #1_tesztblokk #6_felv_22_1_4_gombóc_artúr 824) #blokk #borsos #common #edubot #endre #fejlesztők 38) #almappa #blokk #borsos #almappa #blokk #borsos #almappa #blokk #borsos #borsos #cosport #524demo #almappa #bernutatása #blokk #borsos #1_tesztblokk #adam_test_001 #adamlovas2 #almappa	dc_Artúr #1_tesztblokk #6[elv_22_1_4_gombóc_artúr 824) #blokk #borsos #common #dubot #endre #fejlesztők 58) #csoport #endre #fejlesztők #almappa #biokk #borsos #almappa #bemutatása #blokk #borsos #csoport #adamlovas2 #almappa	óc_Arúr #1_tesztblókk 2022-01-22 21:30:47 #6. felv_22_1_4_gombóc_artúr 2021-09-25 09:43:04 824) #blokk #borsos #common #edubot #endre #fejlesztók 2021-09-25 09:43:04 58) #almappa #blokk #borsos #soport #endre #fejlesztók 2021-04-18 21:12:27 #almappa #bemutatása #blokk #borsos #csoport 2021-04-18 21:12:27 #almappa #bemutatása #blokk #borsos #csoport 2021-04-19 14:24:36 #bemutatása #blokk #borsos 2021-03-09 18:47:20 #_t_tesztblokk #dam_test_001 #adamlovas2 #almappa 2020-12:05 10:11:31	bcc_Artúr #1_tesztblokk 2022-01-22 21:30:47 a240 #blokk #borsos #common #edubot #endre #fejlesztők 2021-09-25 09:43:04 38) #lmappa #blokk #borsos #coport #endre #fejlesztők 2021-04-18 21:12:27 4 #lmappa #bemutatása #blokk #borsos #cosoprt 2021-04-19 14:24:36 #lmappa #bemutatása #blokk #borsos 2021-03-09 18:47:20 #l_tesztblokk #dorsos 2021-03-09 18:47:20 #l_tesztblokk #dorsos 2020-12-05 10:11:31	bcc_Artúr #1_tesztblokk 2022-01-22 21:30:47 Borsos Endre a240 #blokk #borsos #common #edubot #endre #fejlesztők 2021-09-25 09:43:04 Borsos Endre 380 #damappa #blokk #borsos scoport #endre #fejlesztők 2021-04-18 21:12:27 Borsos Endre #almappa #bemutatása #blokk #borsos #csoport 2021-04-19 14:24:36 Borsos Endre #almappa #bemutatása #blokk #borsos 2021-03-09 18:47:20 Borsos Endre #almappa #bemutatása #blokk #borsos 2021-03-09 18:47:20 Borsos Endre #	bcc_Artin #1_tesztblokk Borsos Endre Image: Common and and and and and and and and and an

- which topic does it belong to,
- what level of difficulty

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- how many tasks there are within the given topic and difficulty level, as well as how
- whether it is a basic or main task, possibly a supporting task or supporting material, i.e. video or pdf,

we recommend the following naming format:



The first number belongs to the topic of the curriculum.

The second one means the difficulty level of the unit.

The third number is the task number.

And the forth one means whether it is the main task, helping task or supporting material.

WHAT KIND OF TASKS, UNITS CAN WE CREATE?

Unit creator wizards - presentation of different engines

PDF

Video

Multiple answers - Millionaire

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Pairing Filling the gap - Fish in the water, Comprehension Type the answer - Texty Select the right ones from a row of answers - Boom! Kill the wrong answers - Bubble game Find out an expression - Hangman Group words, numbers, expressions or images

<u>Learning unit types</u>

- <u>Text task</u>
 - is used when we want to insert one or more answer fields in a medium text or math problem, which students have to fill in with their own text answers. In this unit type there are no answer options to choose from.
 - To learn more about text task: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types/text-task</u>
 - Comprehension
 - is used for text comprehension tasks. Longer texts can be placed on the first task screen, and then questions related to the text can be asked on the next screen. The original text can be placed under the Info button, so it can be recalled at any time by the students. In this unit type, there are answer options to choose from in the answer field.





 To learn more about comprehension task: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-</u> <u>units/edit-learning-unit-types/comprehension</u>

• **Open question**

- this unit type is used for essay question tasks. No good or bad answer options are given, the system does not evaluate if the unit was completed successfully or not. It is up to the teacher to assess the performance of the unit.
- To learn more about open question task: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types/open-question</u>
- <u>Millionaire</u>
 - is used for short questions or math problems. The students have to choose the right answer from the displayed answer options.
 - To learn more about millionaire task: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types/millionaire</u>
- <u>Sets</u>
- are used to create two or more sets which students have to place the given elements into.
- To learn more about sets: <u>https://www.edubot.hu/classy-user-</u> manual-teachers/learning-units/edit-learning-unit-types/sets



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• <u>Affix</u>

- is used to create pairs of short mathematical problems or short text tasks, where students have to find the other half of the pair from the floating answer options.
- To learn more about affix: <u>https://www.edubot.hu/classy-user-</u> manual-teachers/learning-units/edit-learning-unit-types/affix
- <u>True or false</u>
 - is used to create one or more task screens, where students have to decide whether the given statement is true or false.
 - To learn more about it, see: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types/true-or-false</u>

• Fish in the water

- is used when we want to insert one or more answer fields in a medium long text or math problem, which students have to fill in with the correct answer by choosing from the floating answer options.
- To learn more about it, see: <u>https://www.edubot.hu/classy-user-</u> <u>manual-teachers/learning-units/edit-learning-unit-types/fish-</u> <u>water</u>

• <u>Hangman</u>

 is used to create a classical hangman game, where the students have to guess the answer based on what letters it contains.





- To learn more about it, see: <u>https://www.edubot.hu/classy-user-</u> <u>manual-teachers/learning-units/edit-learning-unit-</u> <u>types/hangman</u>
- <u>Boom!</u>
 - is used to create units that display short answer options one after the other, and the students have to click on the correct answers.
 - Learn more about it: <u>https://www.edubot.hu/classy-user-</u> manual-teachers/learning-units/edit-learning-unit-types/boom
- **Bubble monster**
 - is used to display very short (it suits well for maths) answer options in bubbles, and the students have to pop out the wrong answers.
 - To learn more, see: <u>https://www.edubot.hu/classy-user-manual-</u> teachers/learning-units/edit-learning-unit-types/bubble-monster
- Math monster
 - is used when we want to insert one or more short answer fields in a medium long text or math problem, which students have to fill in with the correct answer by choosing from the floating answer options. The short answer options make this unit type suitable for maths.
 - To learn more, see: <u>https://www.edubot.hu/classy-user-manual-</u> teachers/learning-units/edit-learning-unit-types/math-monster





• <u>PDF</u>

- this unit type is used to create tasks where the students have to study a displayed PDF file. This unit type does not contain questions or solvable tasks.
- To learn more about it check: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types/pdf</u>
- <u>Video</u>
 - this unit type is used to create tasks where the students have to watch a video content (Youtube link or own video can be inserted). This unit type does not contain questions or solvable tasks.

Learning unit types with an examples





• Text task (Playground, Monster high, Neutral) - all three skins are the same

+	— ∧		U	*	≈ ≈		U	-	≈ ≈		U
	 Good Angel a sub-relative de source de logis en vession angel 2016 de ingener de maine anne de logis en vession man a sub-relative de logis en vession man a sub-relative de logis en vession de logis en vession de logis en vession de	A messar képére ulató garancedat az parance. A mendéte utaló purance a paramostala. A tép, ahol Mises desartóri az aranyborjút. az purancelatra utal.		+	1. A partiest association and support of the second second support of the second	A mezura kilopite utelo parancsolat az parancs. A mendeta utelo parance a parancsolat. A kilo, ahol Mozes despetitir az ananyborjót. az parancsolatra utel.			Control a survey and a survey of the su	A mezura kilopite utelo parancacket az paranca. A mendetia utelo paranca a parancackit parancackit A kilo, ahol Mozee desatelon az aranyborjót. az oparancackitra utel.	
		V									

• Comprehension (Playground, Monster high, Neutral)

1	Olvasd el a szöveget, és vélaszolj a kérdésekrel	Olvasd el a szöveget, és válaszolj a kérdésekrel	Olvasd el a szöveget, és válaszolj a kérdésekrel	
-	Caresar retortikal tanulmányok folytaslas céljából Kr. n. 75-ben Ródoszra urzoza, ne úklazben silákal kalozok fogyalás esett, akiv koltaslagi el elherbén akartik szabadon engeníti. A kalozok 20 alemtam artnyak koveleké térő, á zaroban ezen feltákordott, és 50 talenzumban hatázotta meg saját értéket. (20 talenzum egy zenátor, mjó 50 talenzum egy teknélyes casaral éngoar megdysete a kalózok kövéhelyek, majál fiotát tobarzott. A hogivékét Asia penvincia	Caesaar retorikai tanulmänyök folytaatisa celjäböl Kr. e. 75-ben Rodoszra utszott, ete ükközben taikiai kaboxk (ropadaka seent, akkivatsadje ellenetben akaratik szabadon engedini. A kalozek 20 alemum aranyat Koveteké étte, ő. aconano ezen fehlaborodott, és 50 talentumban határozta meg saját efekké. (20 talentum ellentum egy teisintélyes comad érékke volt). Mikor szabadon bocsátották. Caesar alaposta megfsyete a kalozok kövétevjet, majá fistatá toborzott. A testveket Asta szováncia	Gaesar rétorikal tanulmányök folytatása céljából Kr. 8. 75-ben Rodoszza utazatt, de vákozben kilálasi kałórzek forgaigiba eest, sáki váki kalázgál ellenében akorták szabadore snopeli. A kalózek 80 talentum arraya tá kövestek étt, d. azanaban azen felhábercsött, es 50 talentumásan határozta meg agit eftőkét, (20 talentum egy szenástor, mf. 50 talentum ar- bersákották, májá fottást toberzett, melynek kélo kavidnekyt, majá flottást toberzett, melynek kélo kavidnekyt, majá flottást toberzett, melynek kélo	

• **Open question** (Playground, Monster high, Neutral) - all three skins look the same

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Comenyek .		Caméryek		Edemónyok		

• Millionaire (Playground, Monster high, Neutral)



• Sets (Playground, Monster high, Neutral)





......



• Affix (Playground, Monster high, Neutral)



• True or false (Playground, Monster high, Neutral)



• Fish in the water (Playground, Monster high, Neutral)



• Hangman (Playground, Monster high, Neutral)







• **Boom!** (Playground, Monster high, Neutral)



• Bubble monster (Playground, Monster high, Neutral)



• Math monster (Playground, Monster high, Neutral)



- **PDF** there are no skins in this engine, it displays the uploaded PDF
- Video there are no skins in this engine, it displays the added video

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How to edit Learning Routes?

Settings:

Playable: The route must be made playable for students to work with it.

Task Playback Mode:

Test mode:

For adaptive routes, this should be set to test mode. In this mode, students do not receive feedback after each step; they only find out if their overall solution is correct or incorrect by clicking the "Next" button.

Practice: In practice mode, students receive feedback for each item pulled in, and the item flashes red or green.

Learning Route Playback Mode:

For content with level-jumping, use adaptive/level-jumping; for linear content, use linear.





Edit learning route

Basic settings	Schedule	\equiv Adaptive mode	Framework game	Homework	
Name of the learning	route				
Edubot EN demo	2				
Plavable					
Replayable					
Graphical appearanc	e of learning units				
Graphical skin 2 ·	- Monster High	~			
Playback mode of lea	arning units				
Test without feed	iback	~			
Playback mode of su	pporting tasks				
Practice		~			
t.					
Save and exit	Save Cance	Delete			

To learn more about the learning unit types visit: https://www.edubot.hu/classy-user-manual-teachers/learning-units/editlearning-unit-types/video





Preparation of task or learning unit

To create a test or a learning unit, it is essential to perform the steps that are also part of creating other content.

These are:

1. Teacher registration in the system - you may have read about this earlier. To learn more about this, please click this link: <u>https://www.edubot.hu/classyedu-user-manual-teachers/users</u>

- 2. Create a group
- 3. Creating at least one permission group
- 4. Inviting external users or already existing users
- 5. Opening: For teachers/Learning units page
- 6. Creating tasks, learning units
- 7. Creating learning routes
- 8. Set up details
- 9. Share it with the group

We were writing about these steps previously.

	teachers For students For pa	rents Manual Results			Notifica	itions N	16	~	EN	~
	EDUBOT chatboard	Learning units	Modules	Learning routes	Groups	Users	8			
Search	٩	Search					My Desk	top		~
+ Create new Unit Name	Labels	In Modules	Last edited		Owner				Actions	S
					Items per page: 20	0 of 0				





First, we prepare the tasks for the test or for the learning unit.

We can prepare them in any order, we will decide the order of the tasks later, after all our tasks are ready.

It is important to choose a task engine suitable for the goal to be achieved or measured with the task.

Unfortunately, due to their nature, some task engines are not suitable for measuring and mastering all the skills and abilities or at least the slills and abelities we wanted to mesure or to be learned and practised. In this case, we should look for another task engine or look for another task.

Pay attention!

When preparing a task (test) give each task a suitable time frame. The original default time frame in the interface is 3 minutes.

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Labels					Valasz:		Kühldes die Szwältlöhligeles
Unit Name					Externények: D D		0
Task screen							^
Screen time (minutes)							

What makes the task good?





• The task instructions should always be clear, so that the student understands exactly what he has to do, since he cannot always ask the teacher when using the interface.

• When creating a new task or modifying one, it is worth looking at it with the "preview" button to see if the task really looks as we planned.

When using the "preview" button, we see the task as students would when using the interface.

Add task instruction here		
	0/255	
sk text		
Add task text here		
	0/1000	
and the second		

Once we have created a task, we can categorize them into modules on our Desktop. We can even include a task in several modules.

So, we form the tasks into modules, and then the modules into routes.

You can create blocks within modules, and a module consists of as many blocks as you want.

We can also set the difficulty levels within these blocks.

This is especially necessary in the case of adaptive routes, since there the students follow unique routes. In the case of a linear route, there is no need to set the levels, since all students will go through the same route there.





What does this look like in practice?

We create a module in the appropriate folder, we create a block inside the module and we can drag the tasks here.

The tasks will appear in the order you put them in the block, but you can freely change the order.

Creating a route from a module

Plan how many modules you want to create. Prepare them as described above. Then assign a learning route to the group you want to work with.

Tip:

Make sure that all students who are targeted with the test are already members of the group. If this is not the case, make sure that everyone is in the group before starting the test.

The route created within the given group should be named in a clearly identifiable way. If the goal is not to practice or to present a knowledge material, in order for the route to function as as test, we have to do the correct mode.

Tip:

The tests can be set to "test" or "practice" mode. In the former case, the student does not receive feedback on the correctness of the answer, in the latter case, he is given feedback, and he has to repeat the answer until he gets the correct result. In both cases, as a teacher, we receive adequate feedback on the results of the test, however, the function of the "classic" knowledge assessment is provided by the "test" mode.

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What kind of content can be created and how can the EDUBOT contents be used?

Basically, the interface can be used for 5 areas:

1.) **Promotional use of the interface**

2.)creating or using a **test**

3.) creating using a **linear learning route**

- 4.) creating or using an **adaptive learning route**
- 5.) creating or using an **adaptive learning route and clusters** created along the results
- of the adaptive routes for purpose of tutoring (blended learning)

Now that we have familiarized ourselves with how the interface can be used and what kind of content it is suitable for creating let's see what each content means.

In the following, we will deal with the concept and advantages of the test, the linear route and the adaptive route.

Let's discuss these contents in details.



1. Promotional use of the interface

We can say, that the promotional use of the interface is so called the 0th way of using the EDUBOT interface. Promotinal, because we can use/ view the interface without registering. However, many applications of the interface cannot be used at this time.

As an unregistered user, it is possible to use the interface only if an already registered user sends a link pointing to a route to the unregistered user. This form of use of the interface is really only suitable for a superficial assessment of the structure of the EDUBOT interface and, saving unnecessary registration, we can test the interface without investing much time and energy. In this case, the performance on the route and other data are not stored by the interface.





2.TEST

If we want to create a test, we have to practically and technically create a linear learning route, since all students must complete all tasks.

To create test, it is essential to perform the steps that are also part of creating other content.

These are:

- 1. Teacher registration in the system
- 2. Create a group
- 3. Creating at least one permission group
- 4. Inviting external users or already existing users
- 5. Creating tasks by opening For teachers/Learning units page
- 6. Creating tasks
- 7. Creating learning routes
- 8. Set up details
- 9. Share it with the group

When should you create a test on the interface?

We write a test with the students primarily when the transfer of knowledge has already taken place and we want to assess how deeply the students have mastered the given knowledge. There is no point in writing a test with the students in the case of completely unknown, new subject matter, since in this case there is no knowledge material that student has already mastered.

About the test in general - when to use the test?





We should create a test for students:

- at the end of a larger part of the curriculum,
- after a more complicated or complex curriculum section,
- at the beginning of the year (to assess what the students remember),
- at the end of the year (to assess how well they have mastered the annual curriculum),
- in case of preparation for a bigger exam: as an input test,
- in case of preparation for a bigger exam: as an output test,
- and during the preparation process (monitor progress)

How to construct the test?

- First of all, let's define what we want to measure with the given test?
- What tasks are best suited for this.
- How much time will be available to the students?
- Based on this, how many tasks do we want to create?
- What kind of difficulty do we want to create tasks?
- How much time do we allocate for each task for the students?
- The next step is to edit the specific tasks and run them in preview mode in order to check them.

Why is it good to create a test on the EDUBOT interface?

The EDUBOT interface is ideal for creating this kind of content, as you can access and analyze the results with just a few clicks.

Another advantage of the interface is that you can even copy the created test, so you can use it in other groups as well.





3. LINEAR LEARNING ROUTES

Linear learning routes are made up of learning units and models.

The creation of the linear or practice route is no different from the process of creating the test, so please read the relevant sections. But to mentione, you have to do the following steps:

1. Teacher registration in the system - you may have read about this earlier. To learn more about this, please click this link: <u>https://www.edubot.hu/classyedu-user-manual-</u>teachers/users

- 2. Create a group
- 3. Creating at least one permission group
- 4. Inviting external users or already existing users
- 5. Opening: For teachers/Learning units page
- 6. Creating tasks, learning units
- 7. Creating learning routes
- 8. Set up details
- 9. Share it with the group

The series of tasks must be planned in the same way as in the case of the test. Care must be taken to construct the route correctly: from easier tasks to more difficult ones.

Let's remember what our goal is when planning a linear route:

- introducing a new knowledge material to the students and mastering it through tasks of different types and levels of difficulty.
- all students go through the same set of tasks.

The linear learning route is most similar to the process of school education.

What is the advantage of the linear learning route?





Its advantage over adaptive is precisely what is often its disadvantage: the teacher foresees and can precisely control what tasks the students will encounter. All students meet all tasks, there is no possibility for them to skip certain tasks.





4. ADAPTIVE LEARNING ROUTES

About the adaptive route in general - when to use it?

When applying the adaptive learning route, students follow an individual route. The beginning is the same for all students, but depending on whether they successfully solve a task, they move up and receive a harder one and, if they fail to solve the task, they get an easier one. Thus, the route they take is adapted to the needs of the students.

Several difficulty levels can be created within an adaptive route, typically we work with 1-5 difficulty levels. The number of the difficulty levels depends on the curriculum and the knowledge to be transferred and mainly on the teachers will. Of course, there will be adaptive routes where only 1, 2, or 3 difficulty levels are listed, but there may also be some with 5 difficulty levels.

When using adaptive routes, we do not introduce new curriculum to the students, rather, the structure of the route itself presupposes that it is given students have already met with the curriculum, the necessary knowledge, already at some level mastered, only its deepening and practice may be repeated need to be explained and clarified.

In practice, this means that in the case of an adaptive route, the slide basically only needs to be solved if you get tasks. If you fail to solve a task, you will be given a help task, if he encounters difficulties here too, only then will we help him with theoretical background material and helpful questions, with video etc. We will write about these later.

The student progresses from the easier tasks to the more difficult ones, while in practice the individual one depending on the success of solving the task, it moves up or down between levels.

If the student cannot solve a task, the teacher explains the correct solution.

After that, the student always gets an easier task. However, if the student solves without help and a task, then you get a more difficult task.





When do we use the adaptive learning route?

From a methodological point of view, it is worth creating an adaptive learning route for already mastered and known learning materials. The application of the adaptive route is methodologically inappropriate tool in order to learn a new curriculum.

If the goal is to learn new subject matter, in this case it is definitely a linear route.

We recommend its use.

The purpose of using a linear route is precisely that a given slide is everything to the route in some parts, on each task included in the route, in the knowledge transfer material part go through The creation of linear routes and their methodological importance is given we write in more detail in chapter.

During the creation of linear routes, we were introduced to the concept of UNIT. It is adaptive when negotiating routes, it is essential to clarify the concept of SUPERUNIT.

Superunits are special, complex units in which additional assistants, supporting tasks and explanations can be placed.

These helper support tasks are explained to each unit in advance and must be placed, however, they only become active if the student is in difficulty during the solution of the basic task.

If the student can successfully complete the task at a higher difficulty level can step. These difficulty levels can be traversed on the adaptive route depending on which task causes problems for the student. This is where the power of the adaptive methodology lies students are individually provided with a unique route based on their knowledge and needs for students. Therefore, during the application of the adaptive route, all students are assigned to the same task starts the route by solving So at the beginning of the route they perform the same tasks, this depending on how successful they are in completing the given tasks, your individual routes diverge. Some students have higher difficulty tasks p., some students continue with the adaptive through helpful tasks and explanations.

Using an adaptive route for the teacher is also a good option because the given class is a group from the results of the adaptive route completed by, you can see the average performance of





the group, or the the average performance of the group, but also sees the individual performances.

It helps the teacher in creating the so-called CLUSTERS, which will be discussed in the next chapter we will talk more.

Personalization, differentiation

The biggest advantage of the adaptive route is personalization. That means it is within the curriculum, you will receive tasks appropriate for a given level of knowledge. That's it we can avoid that a student spends a lot of time on a subject he already knows perfectly mastered and sufficiently practiced, and to the best of his knowledge, you can move to a higher level of difficulty and encounter and solve more complicated tasks, with this, we also help ensure that the curriculum is sufficiently deepened. Lastly, in turn, we avoid the student getting bored in class. On the other hand, those students who may encounter difficulties with a task of some level of difficulty, immediate help they can get, help tasks, because of explanations. This way we can avoid the slide fall behind, as he was unable to cope with the type of task or part of the curriculum that caused difficulty for him practice. It can also be seen from the above that when applying an adaptive route, the students' own they can progress through the curriculum in accordance with their knowledge and skills and in an individualized manner by practicing it.

Difficulty level

When creating an adaptive route, not only the difficulty levels, but the route we must also pay serious attention to its assembly. As mentioned in the introduction, the adaptive route is built from superunits, which means that in addition to the basic or main task, it may contain helper tasks and various explanatory tasks. As a result due to its nature, it is also more complicated to assemble than the linear route.

As already mentioned in the introduction, the EDUBOT interface is based on the blended learning methodology, thanks to this and the applicability of adaptive routes, it is ideal, for processing larger study materials, preparing for a bigger exam or final exam.



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Let's see how an adaptive learning route looks like in practice via an existing example:

8. Internet							
1. Hálózatok és internet							
1. nehézségi sz	1. nehézségi szint						
Net 8.1.1.0 Hálózatok és internet, átviteli médium	Hálózatok és internet: 1. színt, 1. főfeladat Egészítsd ki a definíciót! számítógépekből, hálózati eszközökből és átviteli útvonalakból áll. Az információs rendszer A számítógépes hálózat A számítógépes grafika Az informatika	Kérdezz – felelek: 1. Főfeladat a hálózatró és az internetről <u>Unity WebGL Player</u> <u>Tanlet (EDUBOT.eu)</u>					
Net 8.1.1.1a Mi az internet?	Az internet a számítógépeket a számítógépeket információ ci	Hal a vízben: Az internet fogalma. <u>Unity WebGL Player</u> <u>Tanlet (EDUBOT.eu)</u>					
Net 8.1.1.1b Átviteli médiumok	Hálózatok és internet: 1. szint, 2. segédfeladat Húzd a megfelelő képet a megfelelő csoportbal Line Vezetékes átvíteli médiumok Vezeték nelküli átvíteli médiumok Vezeték nelküli átvíteli médiumok	Halmazok: Az átviteli médiumok besorolása <u>Unity WebGL Player </u> <u>Tanlet (EDUBOT.eu)</u>					



info@edubot.hu / www.edubot.hu



Net 8.1.1.1c Area Network	Walkenské symmerke 1. jusík 3. stepátfisiala Ar new velnová t Mindeá di klásni i kudného sklavatelová klasného nilu velných klásledek WAN (Wide Area Network) PAN (Personal Area Network) MAN (Metropolitan Area Network) Helyi Hálózat LAN (Local Area Network) Szeleskörű Hálózat	TilosazÁ:Különbözőfoldrajzikiterjedésűhálózatokmegismertetése.UnityUnityWebGLPlayerTanlet (EDUBOT.eu)
Net 8.1.1.1d Az internetezés alapvető eszközei	Hálázatok és internet. 1. szint. 4. segédfelndat Hélyezd a kifigezeiséket a megletelő helyret Az internetezéshez nélkülözhetetén alapvető dolgok a következől: Böngésző Szükség van rá az internetezéskor. Például a Goog z hrom Internetkapcsolat tablet vagy más internetképes eszköz. Az internetezéshez elengedhetetlen, lehet vezetékes (pl. kábel, DSL, o Eszköz	Tilos az Á: Azinternetezés alapvetőeszközei.Unity WebGL Player Tanlet (EDUBOT.eu)
Net 8.1.1.2 Az internet - PDF	Linternet Automatical Automatical	PDF: Az internet - összefoglaló pdf <u>Unity WebGL Player</u> <u>Tanlet (EDUBOT.eu)</u>
Net 8.1.2.0 Az internet jellemzői	Hálózatok és internet: 1. szint, 2. fofendat Az internét egy vilégnétet hálózat, amely összeköt a kilópápáket és hálózatokat. (Piakkaszd ki a helytelen válaszokat) (Piakkaszd ki a helytelen válaszokat)	Buborékszörny:Azinternetfőbbjellemzői.Unity WebGL Player Tanlet (EDUBOT.eu)







Net 8.1.2.2 Az internet jellemzői -PDF	EVALUATE	PDF: Az internet főbb jellemzői. <u>Unity WebGL Player </u> <u>Tanlet (EDUBOT.eu)</u>
0. nehézségi sz Net 8.2.1.0 Az internet alapvető elemei	Hálózatok és internet: 2. szint, 1. főfeladat Helyezd a megfelelő képet a megfelelő csoportbal	Halmazok: Az internethez szükséges elemek felismerése. Unity WebGL Player Tanlet (EDUBOT.eu)
Net 8.2.1.1 Az internet alapvető elemei - segédfeladat	Aldelde under dans om mer stådet desetter skale de server ble de server	Akasztófa: Az internet alapvető elemeit taglalja. <u>Unity WebGL Player </u> <u>Tanlet (EDUBOT.eu)</u>
Net 8.2.1.2 Az internet alapvető elemei - PDF	<text><text><text><text><text></text></text></text></text></text>	PDF: Tájékoztató azinternetalapvetőelemeiről.Unity WebGL Player Tanlet (EDUBOT.eu)



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Net 8.2.2.0 Fizikai eszközök	Hitcaatek és internet - 2. szint, 2. felfedaat Lehtővé teszi az internetikagosodatok tazáltal, högy átdaláklájta al díjátási sjölekkit analóg. (sidásal hetőveronalatok, katalhaklastakok neveg oktala hitdazakok Router Network Interface Card (ISIC) Switch Modern Access Point (AP) Hub	Kérdezz-felelek:Internetesfizikaieszközökfelismerésedefiníció alapján.Unity WebGL PlayerTanlet (EDUBOT.eu)					
Net 8.2.2.1 Fizikai eszközök - segésdfeladat	KÁBEEKÉS EEÉKEK hiíjklmno' óöőpqrstu úüűvwxyz	Akasztófa:Internetesfizikaieszközökfelismerésedefinícióalapján-segédfeladatUnity WebGL Player Tanlet (EDUBOT.eu)					
Net 8.2.2.2 Az internet alapvető fizikai eszközei - PDF	<text><text><section-header><text><text><text><text><text></text></text></text></text></text></section-header></text></text>	PDF: Tájékoztató az internet alapvető fizikai eszközeiről. <u>Unity WebGL Player </u> <u>Tanlet (EDUBOT.eu)</u>					
0. nehézségi szint							
Net 8.3.1.0 Az internet kapcsolat típusai	Hittendene Extended Alexandre 1. Stellence Managemend Stellence Stellence Managemend Stellence Stellence Dial-up Mobilinternet (SG, 4G, 5G) Stellence Kåbelinternet Ethernet Ethernet Powerline Networking ISDN (Integrated Service) Stellence Mübildne internet Vezeték nélküli internet Vezeték nélküli internet	Kérdezz -felelek: Az internet kapcsolat típusai Unity WebGL Player Tanlet (EDUBOT.eu)					



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Net 8.3.1.1 Az internet kapcsolat típusai - segédfeladat	 Hálózatok és internet 3. szint, 1. segédfeladat: Az elektromos vezetékeket használja az internetkapcsolat biztosítására. Helyi hálózati (LAN) technológia, gyakran hasztranjak vallajati és ogoni ha ISDN Powerline Networking Digitális telefonvonalakat használ az adat- és hangátvitelhez. 	Tilos az Á: Kérdések a 2D grafikáról. <u>Unity WebGL Player </u> <u>Tanlet (EDUBOT.eu)</u>
Net 8.3.1.2 Az internet kapcsolat típusai - PDF	<list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item>	PDF: Tájékoztató az internet típusairól. ++ <u>Unity WebGL</u> Player Tanlet (EDUBOT.eu)
Net 8.3.2.0 Az internet sebesség.	Hálózatok és inferend 3. színt, 2. fóleladat: Az internetjsebességi méréséré számos online eszköz áll terdelkezésre, amalyek segítedegével még lehet hutázozin a kötöttesi és felöttési secseséget, valamint a ping idót. speed.net nperf.com fiber.google.com fast.com speed.com speedtest.net	Kérdezz – felelek: Az internet sebesség. <u>Unity WebGL Player</u> <u>Tanlet (EDUBOT.eu)</u>
Net 8.3.2.1 Internet sebesség - segít feladat	Hálózztók és internet 3. színt, 2. segédfeladat: Altalában 100 Mbps-tól 1 Gbps vagy magasabb Kábelinternet Általában 10-1000 Mbps Óptikai internet Általában 10 Mbps-tól több Gbps-ig Mobilinternet (4G, 5G)	Tilos az Á: Azinternetsebességmértékegységérőlmérésérőlésfelhasználásáróladtájékoztatást.Unity WebGL Player Tanlet (EDUBOT.eu)





		PDF:	Internet
Net 8.3.2.2	Feltöltési sebesség (Upload Speed) Definició: Az a sebesség, ameliyel az adatokat a felhasználó eszközéről az internetre lehet feltölteni.	sebesség - PDF.	
Internet sebesség-PDF	 Jeteutsése: Fontos a fijlok felotléséhez, videok streameléséhez, videokivásokhoz, és a felhőalapú szolgálatisok hazaránitáboz. Péláz, Eh egy 100 MB-os fijlit töltesz fel egy 5 Mbps sebességű kapcsolaton, körülbelül 160 másodpercig tart. Ping és késleltetés (Lateucy) Definicirk A keiseltetés az az időa anely slatt egy sdatszonng ér miliszebundhmobban (ma) mérik. Jetertsége: Alacsony késleltetés (Laccony ping) fontos az online játkokhoz, videbítívásokhoz és egyéb valós idejű alkalmazásokhoz. Péláz: Egy 20 ms késleltetés gyors válaszidőt jéz-át, mig egy 100 	<u>Tanlet (EE</u>	<u>OUBOT.eu)</u>

PAYATTENTION!

When creating the difficulty levels, pay attention to the fact that the first (and sometimes the second as well) difficulty level should contain easier tasks that all students can solve, avoiding that the student suffers from failure at the very beginning of the adaptive route.

What makes the adaptive learning routes different from the linear learning routes?

As we have mentioned it previously, linear learning routes bulid up from moduls which build up from units.

Superunits

The adaptive learning unit consists of superunits.

The superunit differs from the unit in that, in addition to the basic task, it also contains a helping task and/or supporting learning material, and explanations, so they are complex learning unit types. If the student has difficulties to successfully complete the unit these supporting task. A prequisite for a superunit is that the helping units are already created in the system as regular learning units.



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To learn how to create a superunit, please see: <u>https://www.edubot.hu/classyedu-user-manual-</u> teachers/learning-units/superunits

Convert learning unit to a superunit (add helping units)	
Helping units	
🛛 🥺 DÉ_számok_13_S	• 🗸 •
🛛 💿 Repeat main unit	0 / 0
C DÉ_számok_13_M	• 🗸 •
Add unit Add Repest main unit	
Superunits are complex learning unit types. By enabling superunits you can add helping units (previously created learning units) to given learning unit. You ca of the main learning unit. Superunits helping units activate when the user reaches error % set in Activate superunits helping units field.	n insert as helping units as many units as you want, and you can also insert the repeat
Preview Save and exit Cancel Delete	





LINEAR LEARNING ROUTES vs. ADAPTIVE LEARNING ROUTES

How can I decide whether to create or apply a linear learning route or an adaptive learning route?

When we decide what kind of content to develop on the EDUBOT interface, it is important to choose content that suits our purpose.

The table below contains a comparison of the linear learning route and the adaptive learning route. The table contains the main characteristics of linear and adaptive routes.

	LINEAR LEARNING ROUTES	ADAPTIVE LEARNING ROUTES
When to use?	Presentation and familiarization of a new unknown part of the curriculum. Creating a test.	Deepening the curriculum, practicing, uncovering and filling in any gaps.
It's purpose	knowledge survey - in the form of a test, transfer of knowledge, introduction of unknown, new course material	deepeningandpracticingknowledge,uncoveringgapsandblockages,clustering
How?	Each student should go through the same set of tasks, units.	Students follow different, individualized routes within the learning route.
What is the learning	Units (tasks)	Supernuits (basic task, supporting task, supporting learning material-



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route made of?		pdf/video)
It's character	Less complex learning route.	It is a complex learning route.
What is in the focus?	The curriculum.	The student, the individum.
		According to the results we can make clusters.

What clusters are?

Clusters are groups of students that classify students with the same performance in the same clusters, so that the teacher can deal with the students in the way that best suits their needs in the future.

The cluster classification is based on the results of adaptive learning routes.

Based on this, we can classify students with similar difficulties into the same cluster and support them in the learning process according to their needs, even during a face-to-face tutoring event.





How can the EDUBOT contents be used?

4 main ways to use the interface:

- (1) Creating/using test
 - creating linear test
 - using an already existing test shared with you
 - copying an already existing test shared with you
 - creating test all by own (creating a totaly new test)
 - creating adaptive test
 - using an already existing test shared with you
 - copying an already existing test shared with you
 - creating test all by own (creating a totaly new test)
- (2) Creating linear learning routes
 - using an already existing linear learning route shared with you
 - copying an already existing linear learning route shared with you
 - creating linear learning route all by own (creating a totaly new linear learning route)
- (3) Creating adaptive learning routes
 - using an already existing adaptive learning route shared with you





 copying an already existing adaptive learning route shared with you

- creating adaptive learning route all by own (creating a totaly new adaptive learning route)
- (4) Creating adaptive learning routes supported with individual tutoring
 - In light of the results of the adaptive route, students can be classified into clusters and their individual learning process can be supported within the framework of individual tutoring this option differs from the previous one in that.





1. Using or creating test in EDUBOT interface

One of the most obvious and practical applications of digital content is the digitization of tests. It is obvious, since digital education is above all suitable for testing specific, objective knowledge. We can easily tell the machine that 11x4=? the correct answer to question 44. At the same time, it is very difficult - for example - to write/correct a sentence in a digital environment, because artificial intelligence is not yet able to evaluate such a complex linguistic construction.

It's practical, because the digital support system, like a diligent assistant, corrects papers and immediately presents the result, which it also saves, so we can find it and use it again at any time later, if - for example - we want to track the progress of a student to follow. In addition, the digital test that has already been prepared can be used in several groups of students, it can be used again later on, and it can be used again either modified or unchanged.

A **linear test** means that the tasks of the test are given to each student in a row, one after the other, regardless of how correctly or incorrectly they answered the question.

It is also possible to prepare an **adaptive or "jumping" test**, where the student, after solving a task correctly, skips a few tasks of similar difficulty and immediately encounters a more difficult task. In most situations, the linear test is the right solution, adaptive testing can be interesting in the case of more extensive competence measurements.

When should you create a test on the EDUBOT interface?

If you want to assess with one or more groups of students whether they have mastered the course material and, if so, to what extent.

Why is the EDUBOT interface suitable for this?

This is because during the evaluation of the results, the system generates the results of both the group and the individual students participating in the group. Accordingly, the teacher can





see the time spent on each route, as well as which part of the material or task caused difficulty for the given student.

This makes classification into a cluster easier, and AI can also be used during cluster classification. The AI makes a proposal for classifying the students into a possible cluster.

We have seen the advantages of test creation and what tests we can create on the EDUBOT interface, and now let's see what we can create and use tests on.

In this case, there are two ways to create a linear or an adaptive route:

- creating your own test for student or
- using an already existing test wich is shared with you

Linear / Adaptive playback mode - Linear route playback mode means that the student has to complete all learning units on the same difficulty level before he can move to units on a higher level. Adaptive playback means that if the system detects that the student is performing well at a given difficulty level, the student will be automatically moved to a higher level and the student can continoue the route.

Lets see the first option:

Creating new tests for students – complete workflow of running a test with your group.

So let's put together a list of tasks that we want to digitize! Let's plan that approx. how much time we spend on the test, including solving each task. Please bear in mind that during the digital test, the student must solve the tasks one after the other, he cannot jump back and forth from one task to another, as he might do in the case of a paper-based test.

We should also take into account whether we want to implement the testing itself online or in a classroom environment. In the case of on-line testing, we cannot limit the use of various aids




(or even the communication between students), so it is good to keep this in mind when preparing the tasks.

The following operations are presented below:

- First of all, we prepare the digital EDUBOT (EDUBOT) assignments
 - (see link: <u>https://www.edubot.hu/classy-user-manual-teachers/learning-units/edit-learning-unit-types</u>)
- Arrange them in order and group them into one or more modules
 - (see link: <u>https://www.edubot.hu/classy-user-manual-teachers/modules</u> and <u>https://www.edubot.hu/classy-user-manual-teachers/groups/add-and-</u> <u>manage-users-group</u>)
- We select a group of students with whom we want to take the test, and we create the learning route for the test in the group
 - (see:<u>https://www.edubot.hu/classy-user-manual-teachers/groups/learning-</u>routes-group)
- We specify the time frame of the test and supervise the testing process
- We look at and interpret the test results

Using an already existing test wich is shared with you

You can share the already prepared/already existing test with others, or you can decide to use an existing test that has been shared with you.



EDUBOT	•••••	info	@edubo	t .hu / v	www.edub	oot.hu
For teachers For students For	parents Manual Results		Notific	cations <mark>MÉ</mark>	· ·	EN 🗸
EDUBOT chatboar	rd Learning units Modules	Learning routes	Groups	Users		
Learning routes in Group: EDUBOT DEV SK	~			\bigcirc I	only want to see my	contents
+ Create new						
Learning route name Labels		Owner				Actions
> Ismerkedés EDUBOT #alapiskola #borsi (#3072) #ismerkedés #len	os #drafi #edubot #endre #gabriel #gyula gyeltibi1 #szabó	Borsos Endre	© .	5 ~ ¤	•• 🖉 🗖 🛥	e 🚺
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In such cases, the group assignment, the invitation of students to the group and the assignments and other settings must be carried out in the same way as discussed above in the section on creating the test.

What should you pay attention to if you use an existing test that has been shared with you, or if you share a test that you have created with others:

- If you change the settings of the test or the order of the modules, it will change for all users with whom the test is shared in the same way as with you.
- This applies to all settings. So, if a user with whom the test is shared hides it until a specified time, it will not be visible to other users until the specified time.
- This applies to the so-called test also to its owner, who originally created the test. If you share the test with a user, that user can freely change the test he shared.

In light of this, how and in what way is it worth sharing the price created - either linear or adaptive - test?

In the case of very close cooperation with the person with whom we shared the created test. With whomever we can possibly discuss any changes to the settings, we can discuss them.





Also, all of this is also true backwards, it is worth using a shared test where we know the users with whom the test is also shared. Although, based on experience, it is usually problematic for several such users to ensure that all users are properly informed of changes in settings.

Another solution would be the method discussed in the next sub-chapter, which will be explained there.

TIP:

It is worth choosing a shared rout or test if you are working with other colleagues on the given set of tasks. This way, everyone can see everyone else's work - but everyone can also modify everyone else's tasks.

Copying already existing test which were shared with you

You can copy an already existing test which were shared with you or the test you created can be copied by another user.

For teach	ers For students For parents Manual R	esults			Not	ificati	ons	MÉ			~	EN 🗸
	EDUBOT chatboard Learning	units Modules	Learning routes	Grou	squ		Us	ers				
Learning routes in Group:	EDUBOT DEV SK	~					0) I	only v	vant to see	e my co	ntents
+ Create new												
Learning route name	Labels		Owner									Actions
> Ismerkedés EDUBOT (#3072)	#alapiskola #borsos #drafi #edubot #ei #ismerkedés #lengyeltibi1 #szabó	ndre #gabriel #gyula	Borsos Endre	Ø	۲	٩	~	×	Eß.	20)=	e 🚺
 Excel - Megnevezések, alapok (#3201) 	#alapok #borsos #csoport #drafi #dráfi #gabriel #gyorgy #henzel #katona #me	g #edubot #endre #excel gnevezések #mihály	gabrieldrafi	0	۲	٩	Z	jax.	61	/ 0	20	eo 🚺
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In such cases, the group assignment, the invitation of students to the group and the assignments and other settings must be carried out in the same way as discussed above in the section on creating the test.





What is the advantage of copying an existing test that has been shared with us?

Why is it necessary to copy, why is it not enough to use the test shared with us?

- 1.) The primary advantage is clearly that we no longer have to worry about the test tasks and the assignment of the test itself.
- 2.) If we want to write the same test with several groups (classes), it is not necessary to create the test again from the beginning, but it is enough to copy the existing one. Thanks to this, it is not necessary to enroll several classes of students in the same group, but the same test can be written in different groups for each class.
- 3.) This solution is also beneficial if all teachers teaching the same subject in a school want to write the same test with the students.
- 4.) Based on all of this, the dear reader could say that it is fine, but all of this can also be accomplished by sharing an existing test. The biggest advantage of this function is that it eliminates the biggest disadvantage of an already created and shared test, namely that the shared content can be modified by everyone with whom it is shared.
- 5.) If you want to share the test you created with others, but you don't want others to change its settings, the surest way to do this is to share a copy of the test you created with other users.
- 6.) Also, if in the case of an existing test shared with us, we do not want the test's creator or others to change the settings, or we may want to use the test ourselves, but e.g. change the order of the tasks, skip certain tasks, modify the settings slightly, in order to keep them intact, it is best to make a copy of the test shared with us and modify it.

Regarding additional content, it is also true that content cannot be created without registration and the basic operations.

Linear learning route, adaptive learning route, and contents based on the adaptive learning route extended with tutoring are also available as specified above:



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- if they are public or shared with you, you can even use or copy them as described in in chapters about creating a test, applying an existing test, and copying an existing test.





	Which functions of			What is
	the EDUBOT	HOW9	What are the	important to
	interface can be	HOW?	advantages?	pay attention
	used			to?
О.	interface can be used Promotional use of the interface	HOW? The EDUBOT interface is, so to speak, the 0th way of using it, when we just view the interface without registering. However, many applications of the interface cannot be used at this time. As an unregistered user, it is still possible to use the interface if an already registered user sends a link pointing to a route to the unregistered user	advantages? You do not need to register, but some functions of the interface can be tested.	pay attention to? Many functions cannot be used in this form.
		user. In this case, however, the performance on the route and other data are not stored by the interface.		
1.	Creating a test for st	udents		







		Using already existing	You will receive the	A shared
		test which were	content and settings	route can be
		shared with you.	ready.	modified by
				anyone with
				whom the
				route is
				shared, even
				without your
				knowledge.
		Copying already	-You will receive the	You have to
		existing test which	content and settings	make your
		were shared with you.	ready.	own settings.
			-Only you can change	
			it, you can continue to	
			work with your own	
			settings.	
		Creating a totaly new	You can decide about	It requires
		test on the EDUBOT	the entire content,	more work.
		surface.	about who you give	
			what permissions to,	
			whether you make it	
			public content	
2.	Creating linear learn	ning routes		
		Using already existing	You will receive the	A shared
		learning routes which	content and settings	route can be
		were shared with you.	ready.	modified by
				anyone with
				whom the





				route is
				shared, even
				without your
				knowledge.
		Copying already	-You will receive the	You have to
		existing learning	content and settings	make your
		routes which were	ready.	own settings.
		shared with you.	-Only you can change	
			it, you can continue to	
			work with your own	
			settings.	
		Creating a totaly new	You can decide on all	It involves
		learning routes on the	its details, as well as	more time and
		EDUBOT surface.	whether you want to	work.
		<i>v</i>	make it public or not.	
			I	
۸d	antivo logrning routos	(teaching and learning)		
ли	ipuve ieurning rouies		¥7 •11 • /1	
		Using already existing	You will receive the	
	The adaptive	learning routes which	content and settings	
	teaching method	were shared with you.	ready.	
	includes the	copying already	-You will receive the	You have to
	evaluation of	existing learning	content and settings	make your
	learning results and	routes which were	ready.	own settings.
	the classification of	shared with you	-Only you can change	
	student clusters.		it, you can continue to	
			work with your own	
			settings.	





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		Creating a totaly new	You can decide about	It requires
		learning routes on the	the entire content,	more work
		EDUBOT surface.	about who you give	
			what permissions to,	
			whether you make it	
			public content.	
4.	Adaptive teaching an	nd personal tutoring		
			This feature combines	
			the advantages of	
			online space and even	
			offline form of the	
			education.	
			After being classified	
			into a cluster, it is	
			possible to progress	
			with the students	
			during individual or	
			group tutoring, so the	
			teacher can focus on	
			the areas that caused	
			difficulties for the	
			given group of	
			students.	





View and evaluate results

How to get reports from the EDUBOT system

The teacher can request a report on the completion of a learning route from the system. This report can refer to the analysis of the individual performance of each student, but the report for the entire group can also be downloaded.

Tip:

It often happens that the teacher downloads the report for the whole group, but this often distorts the results.

Students who, due to absences or possible other obstacles, do not even begin to complete the route are also included in the evaluation of the report as a default setting. This means that these students are included in the report as if they had not completed the route at all, i.e. expressed as a percentage, their performance is 0%.

The 0% performance of such students is added to the performance of the group and the group average is determined accordingly, thereby distorting the actual result and performance of the group.

In order to avoid this, when retrieving the report, you can do the followig steps:

1. Students who, although they are in the group, but for some reason did not actually start the route, must be manually removed from the given group.





Here's how to do it:

	← → ♂ (*	a tanlet.classyedu.eu/analitics/flows	本 @ ひ よ @ :
		Teachers All users Parents	Manual EDUBOT chatboard Notifications 🛛 zaborszky.andrea 🗸 EN
		Summary	Personal results Group analytics Scheduled reports
	Group: ED	JBOT_HU_Vénkerti 🗸	Show data from: Custom V From 2000-01-01 🗂 To 2030-01-01 🗂 (Apply
	Group anal	rtics: EDUBOT_HU_Vénkerti_ Vargáné Tünde 8	8.a1
	Number of users:	27 Number of playable learning routes: 47 All learn time: 03:59:18	Average learning time: 07:15:31
	Select routes	Arányosság - elméleti ismétlés (+35 others)	or routes with minimum 0 min. AVG learning time
<	Select students	benyeidorka@classyedu.com (+14 others)	Αρρίγ
	Routes	All student	
		Students	
	1212323 Route report	Jenyeidorka	Average learning time: N/A Avg. group results: 0%
	7STEPS DEM Route report	✓ bodnarcsenge	Average learning time: 00:00:04 Avg. group results: 3%
	Arányosság Route report	✓ boldizsaralexandra	Average learning time: 00.05:12 Avg. group results: 37%
	Arányosság, Route report	deakbalazs	Average learning time: 00:10:02 Avg. group results: 43%
		- aasaanatraalaa	

Next to this option there is an option how to filter for routes which were used less than 1 minutes:

2. Thus, when retrieving the report, the teacher can also filter out those routes which were not used by the students by choising filter 1 minute and apply it.

Here's how to do it:

← → C	ta	nlet.classyedu.eu/analitics/flow	S								☆ ©	Û	坐 📣 :
	ASS	Y Teachers	All users	Parents	Manual	Results	EDUBOT chatbo	bard	Notificatio	ns	ZA zaborszk	y.andre	ea 🗸 EN
			Su	mmary	Personal results	Group analytic	Schedul	ed repor	ts				
Group:	DUBO	T_HU_Vénkerti 🗸			\$	Show data from: C	ustom 🗸	From	2000-01-01	Ξ Te	2030-01-01		Apply
Group ana	alytic	s: EDUBOT_HU_Vén	kerti_ Vargái	né Tünde 8	.a1								
Number of use	rs: 27	Number of playable learning roo	utes: 47 All learn t	ime: 03:59:18	Average learning time	: 07:15:31							
Select routes	Ar	ányosság - elméleti ismét	ÉS (+35 others)	~(or routes with minin	num 0 n	nin. AVG learning	time					
Select students	be	nyeidorka@classyedu.cor	n (+14 others)	~			Apply						
Routes		All student											
	Sti	udents											
1212323 Route repo	ort 🗹	benyeidorka							Average learning	time: N/A	Avg. group results	c	0%
7STEPS D	EN 🔽	bodnarcsenge						Ave	erage learning time	e: 00:00:04	Avg. group results		3%
Arányossá Route repo	ig 🔽	boldizsaralexandra						Ave	erage learning time	e: 00:05:12	Avg. group results		37%
Arányossá Route repo	ig, 🔽	deakbalazs						Ave	erage learning time	e: 00:10:02	Avg. group results		43%
moute rept		aazaanatraalaa											





Important!

You have to filter when selecting the group, before you go on the given route. By setting the time, you can filter not on students but on routes

LEARNING RESULTS – REPORTS

Downloading Reports

The results of the learning process can be viewed in the Results menu. The results are available in graphical form or can be downloaded in .xlsx format.

You can view data and analyses at the individual, group, and learning route levels:

- Summary Generation (available on the main Results homepage)
- Individual Results (Personal Results)
- Group Results
- Learning Route Results (selectable within Group Analysis)

One of the biggest advantages of the EDUBOT interface is that the results of each route can be downloaded by group. We talked about this briefly earlier.



During the tracking of student activities, we can primarily monitor students' performance in various mathematical or IT topics/routes through the Learning Routes menu.





General Summary

Provides a comprehensive overview of users' performance and progress on the platform. This aggregated report includes the following data in graphical form:

- Total learning time by group
- Average time spent on learning routes by group
- Summary of my groups
- Summary of learning routes
- Summary of content

Group Results

By clicking on the Group Analysis main menu, you can select the desired group, and then choose the route and users within that group.

Summary P	Personal results Group analytics	Scheduled reports	
Group: EDUBOT - Gagyi Anikó 🗸	Show data from: Custo	m V From 2000-01-01	6 2030-01-01 🖬 Apply
Group analytics: EDUBOT - Gagyi Anikó			
Number of users: 58 Number of playable learning routes: 14 All learn time: 10:56:00 Aver	erage learning time: 01:25:47		
Select routes 01.1_Bemeneti_teszt (+14 others) v or	r routes with minimum 0 min.	AVG learning time	
Select students andras.noemi@classyedu.com (+56 others)		Apply	
Routes			
Route report		Average learning time: 00:01:10	Avg. group results: 40%

After listing the routes, clicking on a specific route will display the following detailed results. These results can be downloaded in .xlsx format by clicking the X button in the upper right corner or in .pdf format by clicking the download button.

You can download the following results, broken down by the entire learning routes, block, and levels, or by user or units: achieved results (in %), learning time, routes taken, achieved level, current status, statistics on levels, individual route summary, totals for answers, and rewards.





		Summary	Personal results	Group analytics	Scheduled reports		
Selected users:	lukzoltan (+58 others)	•					
Sack to group							
Detailed report	rt: EDUBOT - Gagyi Anikó - 01.	1_Bemeneti	teszt				
					ſ		
Average learning ti	me : 00:01:10 Average result : 40 %				L	Learning route total	Schedule report sending
Result							~
Learning time	•						~
Progress achi	ieved						~
Level achieve	d						~
Current positi	ion						~
Level reports							~
Custom route	summary						~
User result by	/ Units						~
Rewards							~

Filtering Options:

You can filter by time interval and specify the minimum learning time above which the system will list the results.

Individual Results

In the eLearning system, the "Individual Reporting by Student" feature allows for a detailed report on a specific student's progress and performance.

Summary Pe	anal results Group analytics Scheduled reports
User: lukzoltan V Group: Érettségi bemutat V	Show data from: Custom 🗸 From 2000-01-01 🛅 To 2030-01-01 🖬 🗛py
User analytics: lukzoltan Érettségi bemutató tanároknak	
Fime spent with learning in this group: 00:05:13	
Learning routes	
bemutató-magyar	Personal learning time: N/A Personal results: 0.00%
Route report	Avg. learning time: N/A Avg. group results: 0.00%
bemutató-matematica	Personal learning time: N/A Personal results: 0.00%
beingtoto ingternation	





What can we see from the downloadable reports?

The downloaded reports contain a lot of information for the teacher:

- How much time did the students spend on the given route:
 - \circ in total,
 - o on average,
 - \circ one by one.
- which student followed which routes,
- what result did each student achieve,
- what is the average result within the group,
- the progress they made,
- the actual status of students,
- reached difficulty level,
- within the adaptive learning routes, what route did each student take?
- who had difficulty with which task,
- Did they succeed in completing the repetitive, helping task? Have they viewed the handouts, video or PDF.

Below are a few statements related to the routes:





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Elért előrelépés Progress made









Elért szint Reached difficulty level

Szint elérés

ACCHED DIFFICULTY LEVEL







How to motivate students?

It is also often observed during class that students quickly lose their motivation.

This is often no different on the online interface either.

In addition to the fact that the teacher tries to maintain the students' attention and enthusiasm during personal meetings with various playful methods, the frame game of the EDUBOT interface also serves this purpose.

The frame game

The purpose of the frame game is to make the use of the interface more effective and interesting learning process.

The use of the frame game is optional. The teacher can decide to use it - when he feels that it is worth motivating the students extra, or if playfulness is suitable for maintaining their attention - or not. The frame game can be assigned to any route, including the linear learning route and the adaptive learning route.

The scene of the frame game is a castle where different characters exist.

The player is the hero of the story (Hero), who strives to free the victim (Victim) who is languishing in the captivity of the enemy (Enemy).

During the adaptive route, the character (the Hero) must climb the levels of the castle to reach the tower and free the Victim.

There are two reward mechanisms in the Castle frame game:

• *Reward token* - this reward in the form of a gold coin is given to the student when he successfully fulfills the conditions of the level jump and moves to a new level. It is a pre-determined reward that the student can redeem for "game time" within the application.





• *Rewards hidden in treasure chests* - these rewards are given to the students when they collect a certain amount of points, regardless of whether they succeed in leveling up by fulfilling the requirements of a level. The treasure chest can contain anything that the teacher who created the route put in it.

On the screen, an information board presents the rules of the game and the rewards that can be obtained to inform the students.

Setting Up the Framework Game

On the Teacher Interface, there is the option to assign the framework game to individual routes. After selecting the appropriate Learning Route, you need to set up the framework game using the Edit button.

← → C tanlet.classyedu.eu/teache	ers/routes			∞ ☆ © Ď 😣 :
CLASSY DIGITAL EDUCATION	All users Parents Manual	Results EDUBOT chatboard	Notifications	ZA zaborszky.andrea 🛩 🛛 EN
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Learning routes in Group: EDUBOT - H	legyi Tímea 💊	•	Q	I only want to see my contents
+ Create new				
Learning route name	Labels	Owner		Actions
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> 01_Általános bevezető (#3037)	#01_általános #anikó #bevezető #edubot #gagyi #hegyi #lukz #szimonetta #tímea #vaszi	zoltan lukzoltan	8 o t 7	- II 🖍 🔁 🖛 📒
> 02_Halmazok - elmélet (#3271)	#02_halmazok #anikó #edubot #elmélet #gagyi #hegyi #lukzo #szimonetta #tímea #vaszi	oltan lukzoltan	8 0 J 7	F 🗊 🖊 🖨 🗳 🧧 🚦
> 03_Oszthatóság - elmélet (#3272)	#03_oszthatóság #anikó #edubot #elmélet #gagyi #hegyi #lul #szimonetta #tímea #vaszi	kzoltan lukzoltan	8 o t 7	i 🗈 🖊 🖨 😫 🔍 🚺
> 03_0szthatóság - feladatok (#3273) (#3273)	#03_oszthatóság #anikó #anita #anita9709 #csoportja #edub #gagyi #hegyi #lukzoltan #saját #simó #szimonetta #tímea #	oot #feladatok lukzoltan	© • • ~	r 🗈 🖊 🔂 🏝 🔗 🚺

In the Story Frame menu, you need to make the appropriate settings. For the framework game, the following must be enabled: Enable story frame.





The framework game takes place in a castle, and the goal is to rescue a prisoner locked in a tower. By default, the student can choose from three characters (princess- victim, prince-hero, dragon- enemy).

To enable rewards and treasure chests, the other two options need to be checked:

Enable reward for level-up and Enable treasure chests.

Rewards can be created in the Treasure Chests window, which can be a character or other rewards, such as links to online resources, videos, or other text content. You can create a new reward using the New reward option.

sic settings 🕥 Sci	nedule = Adaptive mode	e 🕑 Framework game 🕟 Homework	
Enable story frame			
) Enable reward for level-u			
) Enable treasure chests	Preview treasure chests		
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h this editor, you can place trea by the reward in proportion to the lumber of treasure chests: easure chests Content of the Chest Queen	sure chests along the route and put cha te length of the route and the average v Route champion score: 1500 Treasure chest position as	Average score for tasks: 100 Average score req	is to the route, but be sure to uired to receive chests: 300

When placing the reward, it is necessary to determine the Chest position in the percentage of the route using the menu option, so that the student can receive the reward after completing a certain percentage of the route. After making this setting, the system will automatically display how many points the student needs to earn to receive the reward accordingly.





FAQ

How does learning and progression in a level-jumping curriculum work?

A common question is why the student drops a level if he or she has solved the problem after the help task, i.e. the second time. A task is only considered successfully solved if the student solved it without any help. If the student fails to get the correct solution the first time, he/she is





given the help task and can then try again with the original task. However, at this point, the level will have already been reached, regardless of whether or not the problem is solved.

How can I report technical or content errors found in the system?

A bug report should be sent for any errors encountered in the system. The way to send a bug report is as follows:

- Click on the owl in the top left corner!
- · Click on the Info button
- · Click on the black bug icon in the bottom right corner!
- · In the pop-up window, it is necessary to enter the error encountered.
- · Send to







Is it a good idea to use multiple screens in one task when developing content?

Using multiple screens is effective when you want to ask several questions of the same type. However, it is not recommended to place more than 2-3 tasks in a game engine, as this can lead to undue setbacks, which can be caused by a student failing a single task. It is therefore advisable to maximise the number of surfaces so that there is not too much room for error.

How can the student continue the learning process the next time so that he/she doesn't have to start from scratch?

The default setting in the system is that the student always continues the task where he/she left off. If the replay option is not checked in the route setting, the student can only solve the route once, otherwise he/she can solve it several times.

How does navigation work when solving a task?





1. Click on the owl to navigate backwards and forwards between the learning units. You can move forward using the *Next Unit* menu and backward using the navigation arrow in the top left corner.

2. You can also use the owl icon to exit the system by selecting the *Exit* menu.

3. If the student cannot answer the question correctly, he/she can go back to the task and read it again by using the *Repeat* button in the bottom right-hand corner.

4. Once the student has solved the task, but the time limit has not yet expired, the *Next* button allows the student to move on to the next task without waiting.



How should the learner be prepared for the learning process?





To ensure a successful learning activity, it is useful to provide some basic information to students before they start the task. These are:

- In the system, you can see and track the student's activity, for example, how much time he or she has spent on a task. This in turn allows you to draw conclusions about whether the learner really took the task seriously, read the text, guessed, etc.

- It is worth clarifying how to navigate the system, especially the *Reset* button, as this gives the student the opportunity to start again if he/she has made a mistake.

- When it comes to falling down between levels, it is important to make it clear to children that if they have not managed to complete the task without any help, they will fall down one level. This will not change if he or she successfully completes the task after the help task.

- Finally, on the assessment, it is worth clarifying that in test mode, the system will take all the answers and let the student go on, but this does not mean that they have solved it correctly and will be awarded a mark. In the practice mode the engine always shows immediately whether the answer was correct or incorrect, in the test mode only if you click on continue will the system indicate whether the answer was correct or not.

How does the framework gam e work from a user perspective?

The castle frame game is all about solving tasks at different difficulty levels to reach the top level. According to the game, the character of your choice must get to the top of the tower to free the prisoner. The student can choose from several characters, which is possible at the beginning of the learning process.







If successful, the student is given the next task from a more difficult difficulty level, i.e. the character moves up the stairs. If the answer is incorrect, the student moves to a level with easier tasks and the hero falls.







Content development in Hungary

The aim of curriculum development

The aim of the curriculum development is to support preparation for secondary school admissions, so that students can successfully master the requirements of the upper primary school mathematics exit level, the end of grade 8. We want to deepen students' mathematical knowledge and the competences that enable them to apply their knowledge in practice, mathematical-logical and digital competences. The 12 topics of the admission test are presented in the form of progressively more difficult exercises of varying difficulty.

Topics

- 1. Rational numbers 1.
- 2. Unit of measurement
- 3. Combinatorics
- 4. Graph icons
- 5. Proportionality
- 6. Text exercises: quantities, proportional division 1.
- 7. Percentages, fractions
- 8. Text exercises: fraction, percentage
- 9. Plane geometry angle calculation
- 10. Geometry of space
- 11. Coordinate systems, functions
- 12. Text mixing, movement Age





The result of content development

- 12 mathematics topics

- 12 linear routes - Theoretical knowledge: a text-based theoretical introduction was developed for each topic, containing the knowledge base needed for the given topic, such as basic concepts, formulae, keywords, etc.

- 12 adaptive routes: several hours of adaptive mathematics content with help tasks and explanations, consisting of exercises at different levels of difficulty

- 500 linear tasks
- 300 SU with help tasks and explanations in the adaptive part
- a total of 1520 independent tasks
- text and vlogger style video explanations

The way to reach the digital content is: Teachers - Learning routes - Edubot HU demo

Modules - learning pathways

The 12 topics are organised into 12 pathways/modules in the learning interface.



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	Teachers	All users	Parents	Results	EDUBOT ch	atboard		Notifications		24	Z	abor	szky	.andre	a 🗸 (EN 🗸
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+ Create new																
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Co-funded by the European Union

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Curriculum structure: linear and adaptive content

Each of the 12 topics has a specific number of tasks, arranged hierarchically by difficulty level. The topics were structured along progressively more difficult levels, moving from easier tasks to increasingly more difficult ones. At each difficulty level, several versions of each question type are produced. In case the student successfully solves the problem, he/she can move up to a higher level, if he/she fails, he/she falls back to an easier level, in which case he/she is given another of the three problems.

Each topic was processed using two learning modules, a linear and an adaptive pathway. In total, there are 12 linear and 12 adaptive modules.

- lineris route: an "information" MODULE
- adaptive pathway: a "skills gap filling" MODULE

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Linear pathway: consists of theoretical knowledge elements, summarising what knowledge the student should have for the given topic. The linear pathway is designed for the student to master/repeat the basics of the given topic, such as definitions, basic concepts, formulas, etc. The tasks are individual tasks (not superunits), can be text, video or interactive/game tasks.





Illustrating the structure of linear content within the Units of Measurement topic

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	B KR_mértékváltás_1.1.	#edubot #engine_sets #kr_mértékváltás_1 #	#mértékváltás	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		
	KR_mértékváltás_1.2.	#edubot #engine_affix #kr_mértékváltás_1 #	#mértékváltás	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		• • / 6 •
	🙆 KR_hosszúság9	#edubot #engine_pdf #kr_hosszúság9		2_EDUBOT_HU_2_elmélet_mértékegység	edubot		0 0 / 0 0
	C KR_hosszúság	#edubot #engine_fish #kr_hosszúság #mért	tékegységek	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		0 0 / 0 8
	KR_tömegmértékegysége	ei9 #edubot #engine_pdf #kr_tömegmértékeg	ységei9	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		8 0 / 6 8
	DÉ_ mv_tömeg_S_***	#edubot #engine_mathmonster #mv_tömeg]_\$_	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		0 0 / 0 0
	KR_térfogatmérés mértékegységei9	#edubot #engine_pdf #kr_térfogatmérés #rr	nértékegységei9	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		0 0 / 0 0
	DÉ_ mv_térf_S_1	#edubot #engine_mathmonster #mv_térf_s_	_1	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		
	KR_időmértékegységei9	#edubot #engine_pdf #kr_időmértékegysége	ei9	2_EDUBOT_HU_2_elmélet_mértékegység	edubot		

Adaptive route:

Content of the adaptive pathway: increasingly difficult practice exercises with help tasks and explanations

- the adaptive modules each contain three blocks
- block 1 contains a theoretical introduction
- blocks 2 and 3 contain 3 levels of difficulty
- and the difficulty levels contain 3-9 superunits





- content of the superunits: main task - help task/knowledge item - text or video explanation. The knowledge element with a facilitating function conveys some theoretical knowledge in a textual form, while the facilitating task is an interactive, playful exercise.

Illustrating the structure of adaptive content within the Units of Measurement theme

~ (2_EDUBOT_HU_2_mértékegység	#2_edubot_hu_2_mértékegység #content #copy #edubot #edubot_hu #edubot_tanlet_copy #feladatok #mértékegység	edubot	Z 2 0
>	1. blokk_bevezető			
>	2. blokk_felkészítő feladatok			
	3. blokk_vizsgafeladatok			2
	> Difficulty level (1)			2
	> Difficulty level (2)			2
	 Difficulty level (3) 			2
	T KR_6.3.5.1 Superunit #edubot #engine_texty #kr_6 #mértékvá	Itás 2_EDUBOT_HU_2_mértékegység	edubot	6 0 / 6 3
	T KR_6.3.5.2. Superunit #edubot #engine_texty #kr_6 #mértékvá	Itás 2_EDUBOT_HU_2_mértékegység	edubot	🗏 💿 🖊 🔂 😒
	T KR_6.3.5.3. Superunit #edubot #engine_texty #kr_6 #mértéékv	áltás 2_EDUBOT_HU_2_mértékegység	edubot	8 🔍 🖊 🔂
	T KR_6.3.5.4. Superunit #edubot #engine_texty #kr_6 #mértékvá	Itás 2_EDUBOT_HU_2_mértékegység	edubot	8 0 / 6 0
	Add unit			

Block 1: introduction - theoretical introduction text (PDF) to prepare learners for the learning activity, navigating the learning interface, content structure; progression through the learning material; rules of the frame game; collecting Edubot stars

Block 2: Preparatory exercises: contains easier exercises to help you prepare for more complex tasks. This block contains 3 levels of difficulty, with several superunit tasks per level, which contain a help task/knowledge element and an explanation in addition to the main task.





Block 2 of each topic contains 10-20 super-units, each of which includes an interactive main task, 2-6 knowledge items and/or help tasks and an explanation. In total, at least 600 learning elements.

Block 3: Exam papers - only papers at the intermediate to the highest level, based on the admission tests of previous years. Also consists of 3 levels of increasing difficulty.

Each 3rd block contains 10-12 super units, each consisting of an interactive main task, 1-3 supporting tasks/knowledge elements and a text or video explanation.

Illustration of the structure of the examination papers within the Units of Measurement topic

~	3. blokk_vizsgafeladatok				2
	 Difficulty level (1) 				
	R_6.3.3.1 Superunit	#edubot #engine_mathmonster #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	0 1 0
	T KR_6.3.3.2. Superunit	#edubot #engine_texty #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	(8) KR_6.3.3.3. Superunit	#edubot #engine_affix #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	0 / 0 0
	Add unit				
	 Difficulty level (2) 				
	C KR_6.3.4.1. Superunit	#edubot #engine_fish #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	R_6.3.4.2. Superunit	#edubot #engine_mathmonster #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	() KR_6.3.4.3. Superunit	#edubot #engine_boom #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	Add unit				
	 Difficulty level (3) 				2
	T KR_6.3.5.1 Superunit	#edubot #engine_texty #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	T KR_6.3.5.2. Superunit	#edubot #engine_texty #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	0 1 0
	T KR_6.3.5.3. Superunit	#edubot #engine_texty #kr_6 #mértéékváltás	2_EDUBOT_HU_2_mértékegység	edubot	• • / • •
	T KR_6.3.5.4. Superunit	#edubot #engine_texty #kr_6 #mértékváltás	2_EDUBOT_HU_2_mértékegység	edubot	
	Add unit				

Methodological suggestions for the learning activity



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It is recommended that the 12 topics in the digital curriculum are taught consecutively, at regular intervals, e.g. weekly. If a new learning material is processed every week, the entire learning activity is completed in 12 weeks. Care should be taken to ensure that there is no significant overlap between the different subjects, and that work on a new subject starts when the previous subject has been completed.

How to work through the topics: linear and adaptive content

Each topic is presented as a linear and adaptive pathway. The linear routes are labelled as theory, while the adaptive ones are labelled as exercises/practices.

It is recommended to start with the linerary, which contains the theoretical knowledge elements (e.g. basic concepts, formulas) that the student should have for the given topic. It is then recommended to continue with the adaptive pathway of superunits of different levels of difficulty, with supporting tasks and explanations, moving from simpler to more complex tasks.

Introductory route

In any case, it is recommended to start learning on the educational platform with the *Guide*, which allows students to familiarise themselves with the interface, how to navigate it and the different game engines, as the guide contains all the task types created with the game engines.

Measuring performance improvement: input - output test

If you want to work through the entire digital mathematics curriculum, all 12 topics, in preparation for the entrance exam, it is worth assessing the students' level of achievement before the learning activity starts, in the form of the input test, and at the end of the learning activity, in the form of the output test.

Outcomes: monitoring of learning activities

It proposes to create clusters at different levels based on the learning ladders. The results of the learning process can be found in the *Results* section. The results are available in graphical format or can be downloaded in Excel format. Among other things, basic data such as the individual learning time of the learners, the learning path followed, the percentage of results achieved, the relation of individual results to the group average, etc. are recorded.



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Creating clusters - online small group consultation

Based on the results achieved in each topic, it is recommended to work with and develop students in individual performance groups. Pupils in the same small group have similar levels of knowledge and ability structures, and face similar difficulties.

Clusters will be created based on the reporting data, taking care to create clusters with a lower number of clusters, with a recommended maximum of 15 clusters for development.




Content Development in Slovakia

The content development in Slovakia aims to support the learning of Information Technology (IT) for students from grade 6 to grade 9. The concept behind the development of these materials is to assist teachers in presenting the subject matter while allowing students to learn at their own pace and according to their individual needs.

The content covers the following topics:

- Fundamentals of Computer Science
- Computer Graphics Graphic Image Editing
- Word Processing
- Working with Spreadsheets
- Presentation Creation
- Algorithms and Programming SCRATCH
- Algorithms and Programming Microbit
- Internet Security
- Multimedia

Content Development by the Numbers:

- 9 IT topics
- 6 linear learning routes
- 15 adaptive learning routes: several hours of adaptive tasks with varying levels of difficulty, including supportive tasks, text, and video explanations
- A total of 21 learning routes
- 469 linear tasks
- 281 supportive tasks and explanations in the adaptive section
- A total of 750 tasks
- Text and video explanations



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Access Pathway for Digital Content: Teacher Interface – Learning Routes – Edubot SK demo

Modules – Learning Routes

Tanulási útvonalak a csoportban:	EDUBOT DEV SK 🗸	
+ Új létrehozása		
A tanulási útvonal neve	Címkék	Tulajdonos
2.SCRATCH - Blokkok típusai, használata (#3375)	#blokkok #borsos #csoport #edubot #endre #gyorgy #használata #henzel #katona #mihály #scratch #típusai	henz
 1.SCRATCH - Kezelőfelület, parancskészletek (#3376) 	#borsos #csoport #edubot #endre #gyorgy #henzel #katona #kezelőfelület #mihály #parancskészletek #scratch	henz
> 3.SCRATCH - Programozás (#337	9) #borsos #csoport #edubot #endre #gyorgy #henzel #katona #mihály #programozás #scratch	henz
1.micro:bit - programozás - 1.szin (#3429)	t #borsos #csoport #edubot #endre #gyorgy #henzel #katona #micro #mihály #programozás #szint	henz
2.micro:bit - programozás - 2.szin (#3430)	t #borsos #csoport #edubot #endre #gyorgy #henzel #katona #micro #mihály #programozás #szint	henz
3.micro:bit - programozás - 3.szin (#3431)	t #borsos #csoport #edubot #endre #gyorgy #henzel #katona #micro #mihály #programozás #szint	henz
> Bemutató készítése (#3498)	#bemutató #borsos #csoport #edubot #endre #gyorgy #henzel #katona #készítése #mihály	henz
Bemutató készítése - Alapok (#3547)	#alapok #bemutató #borsos #csoport #edubot #endre #gyorgy #henzel #katona #készítése #mihály	henz





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	> Multimédia (#3505)			#borsos #csoport #drafi #dráfi #dráfig #multimédia #neve	g #edubot #endre #gabriel			ç	jabri	eld	rafi				
	>	Word (#3458)		#borsos #drafi #dráfig #edubot #endre #word	e #gabriel #gyorgy #henzel #st	eam		ç	jabri	eld	rafi				
	>	Táblázatkezelés - Mic megosztott (#3278)	crosoft Excel -	#borsos #drafi #edubot #endre #excel #gabriel #megosztott #microsoft #táblázatkezelés			gabrieldrafi								
	>	Excel matematika (#3	3211)	#borsos #drafi #edubot #endre #excel	l #gabriel #matematika			ç	jabri	eld	rafi				
	>	Excel függvények (#3	207)	#borsos #drafi #edubot #endre #excel	l #függvények #gabriel			gabrieldrafi							
	> Excel formázás (#3202)		#borsos #drafi #edubot #endre #excel #formázás #gabriel			gabrieldrafi									
	>	Excel - Megnevezése (#3201)	k, alapok	#alapok #borsos #csoport #drafi #drá #gyorgy #henzel #katona #megnevezé	fig #edubot #endre #excel #ga ések #mihály	briel		ç	jabri	eldı	rafi				
>	Szám	ítógép alapjai_old (#3148)	#alapiskola #alapjai_olo	l #gyula #lengyeltibi1 #szabó #számítógép	Lengyel Tibor	Ċ	۲	\$	7	μ		/ 0	2:	8	
>	Szám	ítógép alapjai (#3195)	#alapiskola #alapjai #g	yula #lengyeltibi1 #szabó #számítógép	Lengyel Tibor	O	€	٩	~*	×		/ 0	2	0	
>	Szám	ítógép típusai (#3197)	#alapiskola #gyula #len	gyeltibi1 #szabó #számítógép #típusai	Lengyel Tibor	Ċ	۲	5	~*	×		/ 0	2:	8	
>	Hardv	ver (#3200)	#alapiskola #gyula #ha	dver #lengyeltibi1 #szabó	Lengyel Tibor	Ċ	۲	٩	~	μ		/ 0	2:	© [
>	2. Szá	ámítógépes grafika (#3426)	#alapiskola #borsos #c #henzel #katona #lengy	soport #edubot #endre #grafika #gyorgy #gyula eltibi1 #mihály #szabó #számítógépes	Lengyel Tibor	Ċ	€	٩	~	Þ		/ 0	2	0	
) s	2. Gra zínek (ifikai felbontások, formátumok, #3457)	#alapiskola #borsos #c #grafikai #gyorgy #gyul	soport #edubot #endre #felbontások #formátumok a #henzel #katona #lengyeltibi1 #mihály #szabó	Lengyel Tibor	Ċ	۲	5	~	μ		/ 0	27	8	
>	Intern	net (#3501)	#alapiskola #gyula #int	ernet #lengyeltibi1 #szabó	Lengyel Tibor	Ċ	۲	٩	~*	μ		/ 0	2:	8 1	

Curriculum Structure: Linear and Adaptive Content

Students can explore the 9 topics through approximately 21 learning routes, which can also be utilized by teachers in the classroom. These learning routes vary in difficulty, and within each route, students may encounter tasks of different levels. When a student successfully completes a basic task, they are presented with a more challenging task. Upon solving that, they can advance to the next level. If students encounter difficulties with any type of task, they can rely on supportive resources, such as explanatory PDF documents or videos, to help them understand the content.



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Within each topic, it is recommended that students begin by solving the introductory or socalled basic route to get familiar with the topic.

For example:

- SCRATCH:
 - SCRATCH User Interface, Command Sets
 - SCRATCH Types of Blocks, Usage
 - \circ SCRATCH Programming
- Micro:bit:
 - Micro:bit Programming Level 1
 - $\circ \quad Micro: bit Programming Level \ 2$
 - Micro:bit Programming Level 3

Access to Digital Content

Multimedia - adaptive

https://edubot.classyedu.eu/app/?shareToken=9TBhK59D7fupiOMbycdzeIQfYTDxUL7 N

Word - adaptive

https://edubot.classyedu.eu/app/?shareToken=1KYrzKbDGMbS6JYCJSRMIDoG75t4C hGC

Spreadsheet Management – Adaptive

https://edubot.classyedu.eu/app/?shareToken=m3sNs2AE3a1FKOZZF3foalkuLPb8rmf W

Excel Mathematics – Linear

https://edubot.classyedu.eu/app/?shareToken=SCfTz5GoJ82wbGcyjrBY32arJk0Plwhb





Excel Functions – Adaptive

https://edubot.classyedu.eu/app/?shareToken=vLpKl74glx1hDC6B2b5hm97ito3t7oMN

Excel Formatting – Adaptive

https://edubot.classyedu.eu/app/?shareToken=PKaffse5aydHrWLFwllrP1jkLfF52krw

Excel Basic Functions – Linear

https://edubot.classyedu.eu/app/?shareToken=jtvcdzfPocDuFMUmHxyeTQf77OdrVm8 6

CRATCH - Types of Blocks and Their Usage- Adaptive

https://edubot.classyedu.eu/app/?shareToken=9GyxHmQoaKyhIY0bzYswSJE3gAhOge x0

SCRATCH – User Interface, Command Sets – Linear

https://edubot.classyedu.eu/app/?shareToken=sOJvW11eZLl6vC9KEveQriNeurMXdEp

<u>e</u>

SCRATCH – Programming – Linear

https://edubot.classyedu.eu/app/?shareToken=ALACAhliT7tbrZL5jHcwefw5VhUu14h Y

Micro:bit Programming Level 1 – Adaptive

https://edubot.classyedu.eu/app/?shareToken=eVCYL3sJduxNA46Lig9URvIoRG1YwfT 2

Micro:bit Programming Level 2 – Adaptive

https://edubot.classyedu.eu/app/?shareToken=lPWBvN4vvCzBgz5yXocuRrKAmOroO Vq0

3 Micro:bit Programming Level 3 – Adaptive





https://edubot.classyedu.eu/app/?shareToken=aMeH8ginjWplQgdcTghhoJyp94wrukqt

Presentation Creation – Adaptive

https://edubot.classyedu.eu/app/?shareToken=steZDDXeCcIFsoxGtu0UOsaipMd82Cdk

Presentation Creation – Basics – Linear

https://edubot.classyedu.eu/app/?shareToken=m43AluFml3yt4uglBBHkKGkWo1xGry wl

Computer Basics – Adaptive

https://edubot.classyedu.eu/app/?shareToken=MjJxpfItfenORXHkA2NiuWKBDO53r4 W9

Computer Types – Adaptive

https://edubot.classyedu.eu/app/?shareToken=MjqpDVgCtwQz0gFeOnu1XpyBnfN3Ed u1

Hardware – Adaptive

https://edubot.classyedu.eu/app/?shareToken=oPpteRKELhLWr9A0sF6LyAhS6XIH94 ks

Computer Graphics – Adaptive

https://edubot.classyedu.eu/app/?shareToken=x8Jc8uG7dCVyFMnlYIdWg4j4Z9OSo2i O

Graphic Resolutions, Formats, Colors – Adaptive

https://edubot.classyedu.eu/app/?shareToken=LZBih7BJ3nca4wrf5JbKwaHZYuC0fYb k

8. Internet - adaptive

https://edubot.classyedu.eu/app/?shareToken=WQfuspCG6dKcFAXevqWbOcE1nrISh1 uZ





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Content development in Romania

The aim of curriculum development

The main aim of curriculum development is to facilitate effective preparation for the National Assessment Examination in secondary education, with a particular focus on deepening and systematising students' mathematical knowledge and developing the expected competences. The curriculum is based on the level of mathematical knowledge expected at the end of grade 8, with a particular emphasis on pupils' analytical thinking, problem-solving skills and the strengthening of mathematical and digital competences.

The curriculum contains both theoretical and practical elements, with content developed in six main themes to support student development. Each module is based on a differentiated, progressively more challenging task structure that allows for individual progress and successful adaptation to the assessment requirements.

Topics

- 1. Sets
- 2. Divisibility
- 3. Proportional pairs and their properties
- 4. Fractional parts of numbers
- 5. True and false statements
- 6. Point sets and line segments in the plane

The result of content development

- 6 mathematics topics

- 6 linear pathways - theoretical knowledge: for five topics, a text-based theoretical introduction has been developed, containing the knowledge base needed for the given topic, such as basic concepts, formulas, keywords, etc. The true-false question topic is a comprehensive one, with tasks covering a significant part of the 5th–8th grade curriculum, which is why the editors did not find it necessary to develop a theoretical section for this topic.

- 6 adaptive pathways: several hours of adaptive maths content of different levels of difficulty with supporting tasks, text and video explanations





- 43 linear learning units

- The total curriculum contains 236 superunits, 505 adaptive individual tasks and 548 learning units.

How to access digital content: Teacher interface - Learning paths - EDUBOT RO DEMO

Modules - learning pathways

The 6 topics are organised into 6 linear theoretical + 6 adaptive practical pathways/modules in the learning interface.

CLASSY DIGITAL EDUCATION Teachers A	ll users Parents Results EDUBOT chatboar	d					Notifica	itions		lukzoltar	~	EN	~
	Learning units Module	s Learning routes	Groups	Users	Teacher's r	nanua	I						
Learning routes in Group: ED	UBOT RO DEMO	~					C		only v	vant to se	ee my	content	ts
+ Create new													
Learning route name	Labels		Owner									Actio	ons
01_Általános bevezető (#30: (copy) (#3780)	#01_általános #bevezető #copy #der	no #edubot	edubot		Ø	€	5 7	1 0		1		0	
, 02_Halmazok - elmélet (#32 (copy) (#3781)	71) #02_halmazok #copy #demo #edubo	ot #elmélet	edubot		Q	€	5 7	1 0		/ 0	2	8	
02_Halmazok - feladatok (#3 (#3034) (copy) (#3782)	8034) #02_halmazok #copy #demo #edubo	ot #feladatok	edubot		ల	€	5 ~	, ja		/ 0		0	
, 03_0szthatóság - elmélet (# (copy) (#3783)	3272) #03_oszthatóság #copy #demo #edu	ubot #elmélet	edubot		0	۲	5 7	1 0		/ 0		0	
03_0szthatóság - feladatok (#3273) (#3273) (copy) (#3784	#03_oszthatóság #copy #demo #edu	ubot #feladatok	edubot		0	€	5 ^	- ¤		/ 0	2	0	
 04-Aránypárok és tulajdonsá elmélet (#3330) (copy) (#3785 	igai - #aránypárok #copy #demo #edubot #)	#elmélet #tulajdonságai	edubot		0	€	5 7	1 =		/ 0	2	0	
04_Aránypárok és tulajdons: > feladatok (#3318) (#3318) (co (#3786)	ágai - py) #04_aránypárok #copy #demo #edub	oot #feladatok #tulajdonságai	edubot		Ø	€	5 ^	- Ju				0	
 05_Számok törtrésze - elmél (#3382) (copy) (#3787) 	et #05_számok #copy #demo #edubot	#elmélet #törtrésze	edubot		ø	€	5 7	1 0		/ 0	*	8	
 05_Számok törtrésze - felad. (3383) (#3383) (copy) (#3788) 	atok #05_számok #copy #demo #edubot :	#feladatok #törtrésze	edubot		ø	€	5 ^	r je		/ 0	*	8	
> 06_lgaz-hamis állítások-fela (#3400) (copy) (#3789)	datok #06_igaz #copy #demo #edubot #fel	adatok #hamis #állítások	edubot		Q	€	5 ^	- ¤		/ 0	2	8	
07-Ponthalmazok - elmélet (#3443) (copy) (#3790)	#copy #demo #edubot #elmélet #por	nthalmazok	edubot		Ø	۲	5 7	1 =		/ 0	-	0	8
 07-Ponthalmazok és szakas síkban (#3442) (copy) (#3791) 	zok a #copy #demo #edubot #ponthalmazo	ok #szakaszok #síkban	edubot		ø	€	5 ^	- ¤		/ 0	*	8	





Curriculum structure: linear and adaptive content

Each of the 6 topics has a specific number of tasks, hierarchically arranged according to difficulty levels. The topics were structured along progressively increasing difficulty levels, moving from easier tasks to increasingly difficult ones. At each difficulty level, several versions of each question type are produced. In case the student successfully solves the problem, he/she can move up to a higher level, if he/she fails, he/she will fall back to an easier level, in which case he/she will be given a different problem from the ones in the level.

Some topics was processed using two learning modules, a linear and an adaptive pathway. In total, there are 6 linear and 6 adaptive modules.

- linear route: an "information" MODULE
- adaptive pathway: a "skills gap filling" MODULE

>	03_Oszthatóság - elmélet (#3272) (copy) (#3538)	#03_oszthatóság #copy #demo #edubot #elmélet #lukzoltan	lukzoltan	٢	∢	٩	7	×	/	٦	27	ශ	
>	03_0szthatóság - feladatok (#3273) (#3273) (copy) (#3539)	#03_oszthatóság #copy #demo #edubot #feladatok #lukzoltan	lukzoltan	ల	€	٩	~*	jar	/	6	2:	ශ	٠

Linear pathway: consists of theoretical knowledge elements, summarising what knowledge the student should have for the given topic. The linear pathway aims to ensure that the student masters/repeats the basics of the topic, such as definitions, basic concepts, formulas, etc.





Demonstrating the structure of linear content within the topic of Divisibility

~	03_Oszthatóság - elmélet (#3272) (copy) (#3538)	#03_oszthatóság #cop #lukzoltan	y #demo #edubot #elmélet	lukzoltan	© © j		🖊 🖸 🛎 🐵 🚺
	v M 03-Oszthatós	ság - elmélet	#03_osztható #felkészítő #k	ság #copy #demo #edu kisérettségi #lukzoltan	ubot #elmélet #oszthatóság	lukzoltan	1 2 0
	 03-Osztható 	ság - elmélet					
	 Difficulty 	level (1)					2
	01.	_Oszthatóság_elmélet	#01_oszthatóság_elmélet #03_ #demo #edubot #elmélet #engi	oszthatóság #copy ne_pdf #felkészít	03- Oszthatóság - elmélet	lukzoltan	8 2 7 6 8
	Add unit						
	+ Add difficul	Ity level					

Adaptive route:

Content of the adaptive pathway: increasingly difficult practice exercises with help tasks and explanations

- adaptive modules each contain at least three blocks, with increasingly difficult tasks in line with the skills assessment test methodology.

- block 1 contains easier tasks, with occasional help elements
- Block 2 contains tasks of medium difficulty
- Block 3 contains more difficult, competition-level tasks
- the difficulty levels contain at least two sub-levels of 3-5 superunits

- content of the superunits: main task - supporting task/knowledge element - text or video explanation, if appropriate. The knowledge element with a facilitating function conveys some theoretical knowledge in a textual form, while the facilitating task is an interactive, game based exercise.





Demonstrating the structure of adaptive content within the theme of Divisibility







Block 1: easier tasks, occasional superunits.

~ M	03-Oszthatóság - feladatok	#03_oszthatóság #copy #der #felkészítő #kisérettségi #luk	no #edubot #feladatok zoltan #oszthatóság	lukzoltan	🖍 🖭 😣
~	1. blokk - Oszthatóság				2
	 Difficulty level (1) 				2
	0 10szthatóság_1.1	#03_oszthatóság #10szthatóság_1 #blokk #copy #demo #edubot #engine_bubble #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	0 0 1 0 0
	10szthatóság_1.2	#03_oszthatóság #10szthatóság_1 #blokk #copy #demo #edubot #engine_sets #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	
	0 10szthatóság_1.3	#03_oszthatóság #10szthatóság_1 #blokk #copy #demo #edubot #engine_affix #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	
	🕀 10szthatóság_1.4	#03_oszthatóság #1oszthatóság_1 #blokk #copy #demo #edubot #engine_sets #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	0 0 / 6 0
	🤣 10szthatóság_1.5	#03_oszthatóság #1oszthatóság_1 #blokk #copy #demo #edubot #engine_trueorfalse #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	0 0 / 6 0
	10szthatóság_1.6	#03_oszthatóság #1oszthatóság_1 #blokk #copy #demo #edubot #engine_fish #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	
	🛛 💡 10szthatóság_1.7	#03_oszthatóság #1oszthatóság_1 #blokk #copy #demo #edubot #engine_boom #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	
	10szthatóság_1.8	#03_oszthatóság #1oszthatóság_1 #blokk #copy #demo #edubot #engine_millionaire #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	8 0 / 6 0
	🤣 10szthatóság_1.9	#03_oszthatóság #1 oszthatóság_1 #blokk #copy #demo #edubot #engine_trueorfalse #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	8 2 7 8
	Add unit				
	> Difficulty level (2)				2
	+ Add difficulty level				

Block 2: contains exercises of medium difficulty to help strudents prepare for the more difficult tasks. This block contains 2 levels, with several superunit tasks per level, which include a help task/knowledge element and an explanation in addition to the main task.

Block 2 of each topic contains 10-20 super-units, each of which contains an interactive main task, knowledge element and/or supporting task, with an explanation depending on the complexity of the task.





Block 3: only more difficult tasks, corresponding to the third and final level of the aptitude test. At this level, each main task is accompanied by at least one knowledge element, text or video explanation.

Illustration of the structure of the examination papers within the topic of Divisibility

~	3. blokk - Oszthatóság				Z
	 Difficulty level (1) 				2
	30szthatóság_1.1 Superunit	#03_oszthatóság #30szthatóság_1 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	8 2 7 6 8
	30szthatóság_1.2 Superunit	#03_oszthatóság #30szthatóság_1 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 💿 🖊 🗈 📀
	30szthatóság_1.3 Superunit	#03_oszthatóság #30szthatóság_1 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 🛛 🖊 🗊 🕹
	30szthatosag1.4 Superunit	#03_oszthatóság #3oszthatosag1 #blokk #copy #demo #edubot #engine_bubble #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 🛛 🖊 🖸 🖉
	Add unit				
	 Difficulty level (2) 				
	30szthatóság_2.1 Superunit	#03_oszthatóság #30szthatóság_2 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 💿 🖊 🗈 🚳
	30szthatóság_2.2 Superunit	#03_oszthatóság #30szthatóság_2 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 💿 🖊 🗊 🚳
	30szthatóság_2.3 Superunit	#03_oszthatóság #30szthatóság_2 #blokk #copy #demo #edubot #engine_texty #feladatok #felkészítő	03-Oszthatóság - feladatok	lukzoltan	e 💿 🖊 🖸 🚳
	Add unit				
	+ Add difficulty level				





Methodological recommendations for planning the learning process

It is recommended to divide the processing of the digital learning material, which contains six topics, into consecutive periods, such as on a biweekly basis. If a new topic is covered every two weeks, the entire learning process can be completed in about 12 weeks. It is important to ensure that there is no significant overlap between topics. The new material should be started when the previous learning phase has been fully completed.

The process of working through the themes: theoretical and practical approaches

Some topics has been created in two different ways: a theoretical and a practical learning route. The theoretical pathway aims to provide the basic knowledge, such as basic concepts and formulas, needed to understand the topic. It is recommended to start learning with this route. It is then worth moving on to the practice-oriented, adaptive route, which offers exercises and detailed explanations at different levels of difficulty. This pathway is designed to move learners gradually from simpler exercises to more complex problems, ensuring a deeper understanding and application of knowledge.

Introductory route

The learning process should start with the "Introduction" path on the learning platform. This pathway provides students with the opportunity to learn the basics of using the platform, including the navigation functions and the operation of the different game engines. The route includes task types created with different game engines, giving a comprehensive overview of the learning opportunities available on the platform.

Assessment of learning outcomes: input and output measures

If the full 6-subject digital maths curriculum is to be used to prepare for the entrance examination, it is advisable to carry out an initial assessment with an entrance test before the learning process. Once the material has been mastered, progress can be measured in a similar way, using an output test, to get an accurate picture of the evolution of the learners' performance.



Monitoring and analysis of learning outcomes

On the basis of the learning reporting data, it is recommended that different levels of grouping be established according to the performance of the learners. The reporting data is available in the "Results" menu of the elearning platform, where it can be viewed and downloaded in graphical representation or in .xlsx format. The system records basic information such as the individual learning time of the learners, the learning path they followed, the percentage of performance and the comparison of individual results with the average performance of the group.

Small group online consultation - clustering

Groups should be set up based on achievement in each subject area, taking into account the individual performance and development needs of the pupils. Students in the same group should have similar levels of knowledge and skill profiles and face similar challenges.

The groups are based on the reporting data collected by the system. It is important to keep the number of groups small. It is recommended to limit the size of the groups to a maximum of 15 people in order to ensure effective development.

Availability of digital learning materials

The digital learning materials are available without registration via the following links using the GuestLogin/Customer login:

Sets - theory

https://edubot.classyedu.eu/app/?shareToken=ya27w4TSvIYaty93ebS3Nad3dd76vBi9 Sets - exersises https://edubot.classyedu.eu/app/?shareToken=bBeerFky5O4widSYnrA0s3qUx6K6CuSK Divisibility - theory https://edubot.classyedu.eu/app/?shareToken=pGlUGb31GQ3OhiRdN7Qc0u45uK8bh0hwDivisibi

lity - exersises

https://edubot.classyedu.eu/app/?shareToken=qm7h5YydFpLa04tf2VoyeGcFOpJHizQM

Proportional pairs and their properties - theory





https://edubot.classyedu.eu/app/?shareToken=QLUXBtbOtKxUU7OXIEWYJQqebrxeKVOW Proportional pairs and their properties - exersises https://edubot.classyedu.eu/app/?shareToken=rILwZvDzYCuNStQQhQHkpk0X6Xx2FevP Fractional parts of numbers - theory https://edubot.classyedu.eu/app/?shareToken=bYL4X2dZRIVnhjpNviJbD3vqzbJmAvt4 Fractional parts of numbers - exersises

https://edubot.classyedu.eu/app/?shareToken=OwWxJFv6rutD45SOICzKLrEUxIe5t8Sn

True and false statements - exersises

https://edubot.classyedu.eu/app/?shareToken=3gADdQDbOnHCjBbybbc0xtfLBZVCaj65

Point sets and line segments in the plane - theory

https://edubot.classyedu.eu/app/?shareToken=aOUfjgHNSe9nCHcsBUkqTpFYaAZNk6Hc

Point sets and line segments in the plane - exersises

https://edubot.classyedu.eu/app/?shareToken=rfK5sfRSoYBzPVRiuCWekrCbAVQ4RfJg

