



mozaLearn

*Introduction
of the mozaLearn
integrated digital education
system from Mozaik Education*

2020





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Paradigm change in education

Today education is facing more and more serious challenges worldwide. Everyone feels that the time has come for a change in attitude, however, a truly effective solution had been some time away.

The labour market of the future expects an even higher level of digital literacy from entrants whose training has its roots in the past. The tension can be already perceived in the classrooms.

While, on one pole of the system, there are the **pupils who witness the digital boom** as everyday experience **and have a gradually increasing need for digital education**, on the other side, there are masses of teachers sticking to the traditional curriculum becoming accustomed to digital tools very slowly. Hence these teachers feel increasingly uncertain and left alone.

If, in the meantime, we do not offer a solution, or are stalling, the gap between teachers and pupils will continue to grow: the effectiveness of education and morale declines on both sides.

Here, we are going to present a system that is capable of building a bridge between these two poles, that is **beneficial for all its participants, and can be quickly implemented in a spectacular and successful way, even nationwide.** It is a system that finally brings along a real paradigm change.



The **mozaLearn integrated education system** combines the benefits of paper-based textbooks and digital tools. It is able to integrate the **country's well-known and most up-to-date textbooks.** For their elaboration and embellishment, however, the system **uses digital tools** both during classes and home learning, providing a complex, world-class, digital tool system that comprises the entire education system. With its spectacularity, it impresses pupils; and being readily applicable, it makes teachers confident and self-assured in their work at the same time.

A system from which everyone benefits

The advantage of the mozaLearn system is that its **implementation can take place smoothly even with the involvement of market operators in the country**. The implementation does not generate neither professional and market-related debates nor political conflicts.

Since **any - current and future - textbook can be easily inserted**, for the country's textbook publishers it will not mean competition, but rather a new platform that reinforces the presence of their publications on the market. None of the publishers will become excluded from the market, the professional diversity and variety of the system can be maintained. **This way the publishing houses themselves can be made interested**, and the system is also capable of effectively representing and transmitting the education political goals and priorities of the government. Thus, market players can also be reached in order to contribute to the costs and accomplish tasks related to implementation.

The adaptation of the system does not require a mass of extra, unique and integrated equipment, a set of basic equipment is sufficient. The system can be implemented within just a year, including its customization to the needs of the country. The system makes further teacher training possible, and as a result, they will be able to acquire the opportunities given by modern technology and embody them in their work on a daily basis. This may bring a new teaching attitude integrating digital solutions.



There is no need for an immediate and one-off expense: the system is payable through a licence fee. This way, costs can be distributed across several years and, in the meantime, **the customer is provided with** continuously developed, **ever-expanding content tailored to their needs**. Local partners (schools, publishers, specialized groups of teachers, communities and individuals) can participate in its preparation.



Mozaik Education

Mozaik is the well-known and approved brand associated with the **most innovative educational resource provider in Central Europe**, and, **as the leading textbook publisher in Hungary**, we are producing educational materials up to the highest European standards **for the last 25 years**. With millions of textbooks sold annually, Mozaik has a strong market share in textbooks.

With an already existing strong position in the market, Mozaik Education started developing its **turn-key solution for digital education** and introduced it to schools 8 years ago. Today, the mozaLearn digital educational system is used in more than 3000 government schools in Hungary, representing over **70% of the market**.

Our team builds up from experts in IT and textbook publishing who **offer the most recent and comprehensive solutions in all fields of education** providing suitable digital support for pupils, teachers and parents at the same time.

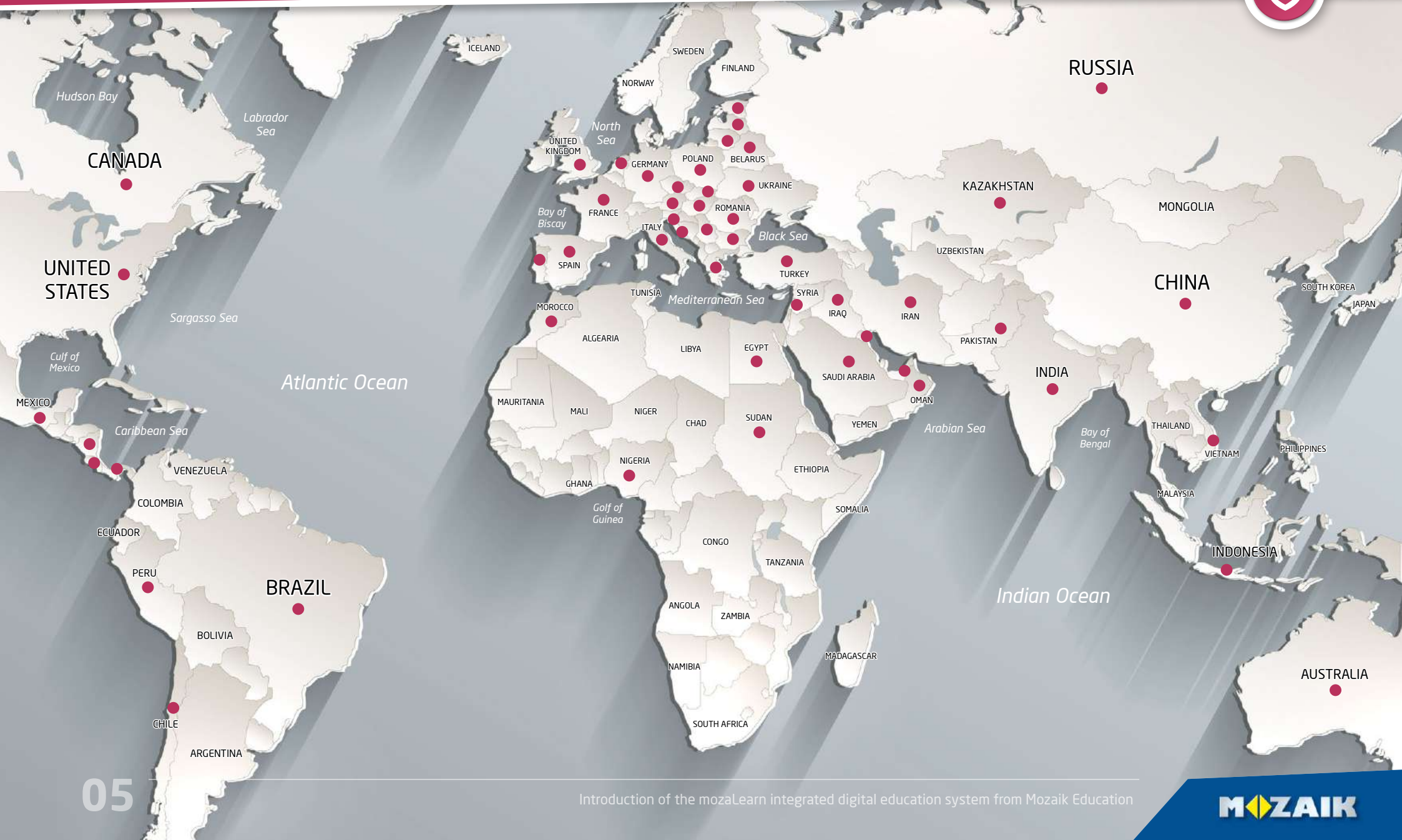
Innovation by education experts

Mozaik Education is a leading force in the front line of innovation. The company was originally established by software developers and mathematicians. **Working 25 years in educational publishing created a unique fusion of skills establishing an essential link between education and technology development**. This connection provides the essence of mozaLearn digital educational system.

Working with over 300 employees and keeping a close contact with the end-user teachers, our company does not just keep up with trends but aims to **set new standards in modern education**. Our educational expertise relies on 25 years' experience in a wide range of pedagogical and methodological publishing and the feedback we gathered from training 10.000 teachers per year.

We have created a curriculum for the entire schooling system and syllabuses for each subject to help school systems improve their teaching programs.

Our worldwide partners





Features of successful education

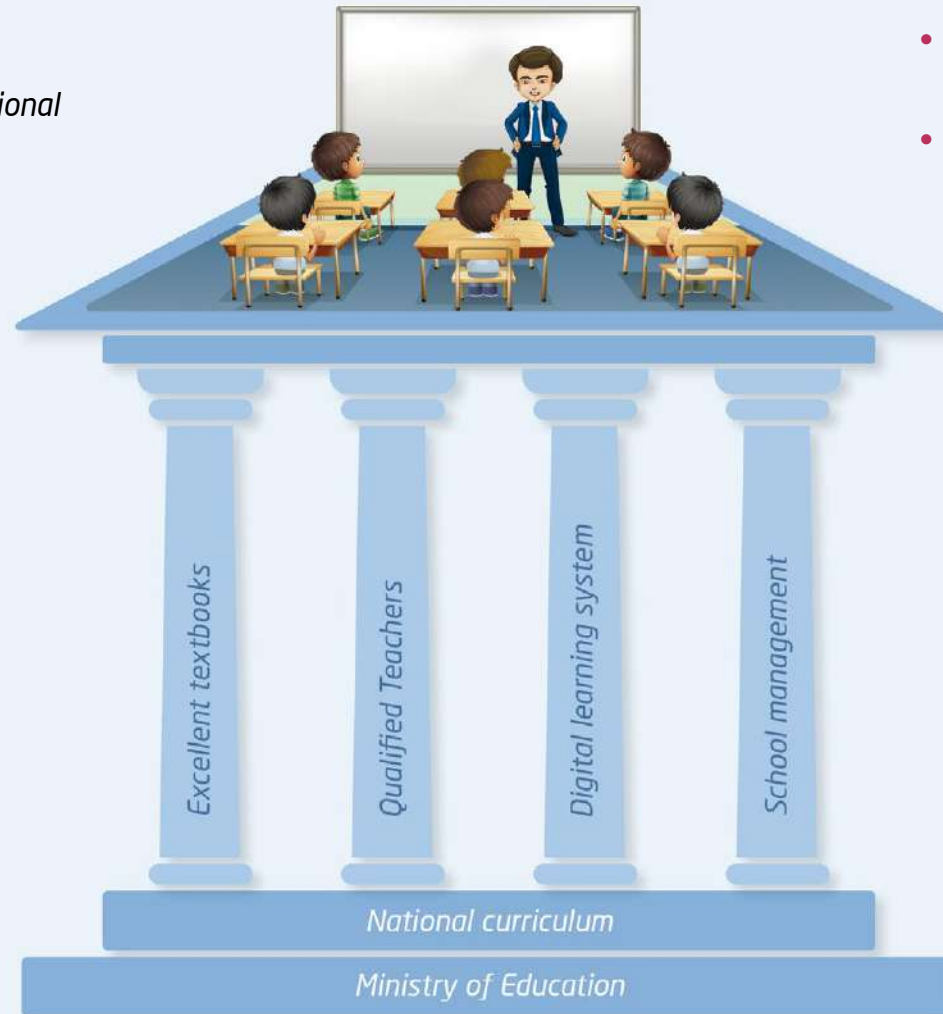
- each and every pillar of the educational process is stable and strong
- well-structured and well-organized communication
- highly motivated teachers and pupils
- adequate digital competence of teachers and pupils

Textbook:

- developed by competitively concerned textbook publishers
- well-edited, richly illustrated, high-quality textbooks

Teacher:

- well-trained, motivated, innovative teachers who are able to develop
- diverse and suitably used teaching methods
- high level of digital literacy



Digital tools and educational materials:

- acquisition of ICT tools with adequate digital subject curriculum
- certain elements of the digital curriculum form an integrated system and accompany the whole educational process

Education management:

- up-to-date and certified information about the individual work and development of schools, pupils and teachers
- involvement of successful and creative teachers
- effective administration and work organisation

Core curriculum:

- successfully selects the essential knowledge and key competences that equip pupils for the challenges of the future

Successful digital education

However, in the development of education, mere **intentions and target setting mean little**. Many governments worldwide are making efforts to modernize education, yet frequently the expected results are not delivered despite high investments and manpower.

- **Purchasing modern and expensive educational tools is not sufficient**, these must also be filled with high quality content serving the goals of education.
- **The content alone is not sufficient**, it needs to be made easily usable for teachers and pupils.
- Traditional and ordinary educational tools are **not to be replaced** but to **be made parts of the new system** by suitably complementing them.
- **Teachers have to be motivated** and their fears associated with new tools be assuaged.
- To avoid the subsiding of enthusiasm felt during the implementation of a new system, it has **to be immediately available nationwide** to teachers who are open to innovations. The system has to be known by a sufficient number of teachers who are able to apply it successfully and **share their experiences with others** in a motivated way.



With the introduction of mozaLearn system, we offer all the following knowledge:

- An **already tested** and successfully functioning system in other countries developed along with the more than twenty years' experience in education.
- Eye-catching educational content impressing children, that is **pedagogically professional** and can be easily handled by teachers at the same time.
- The **know-how**, with the help of which all this can be successfully introduced into the educational system of a country.



Features of unsuccessful education

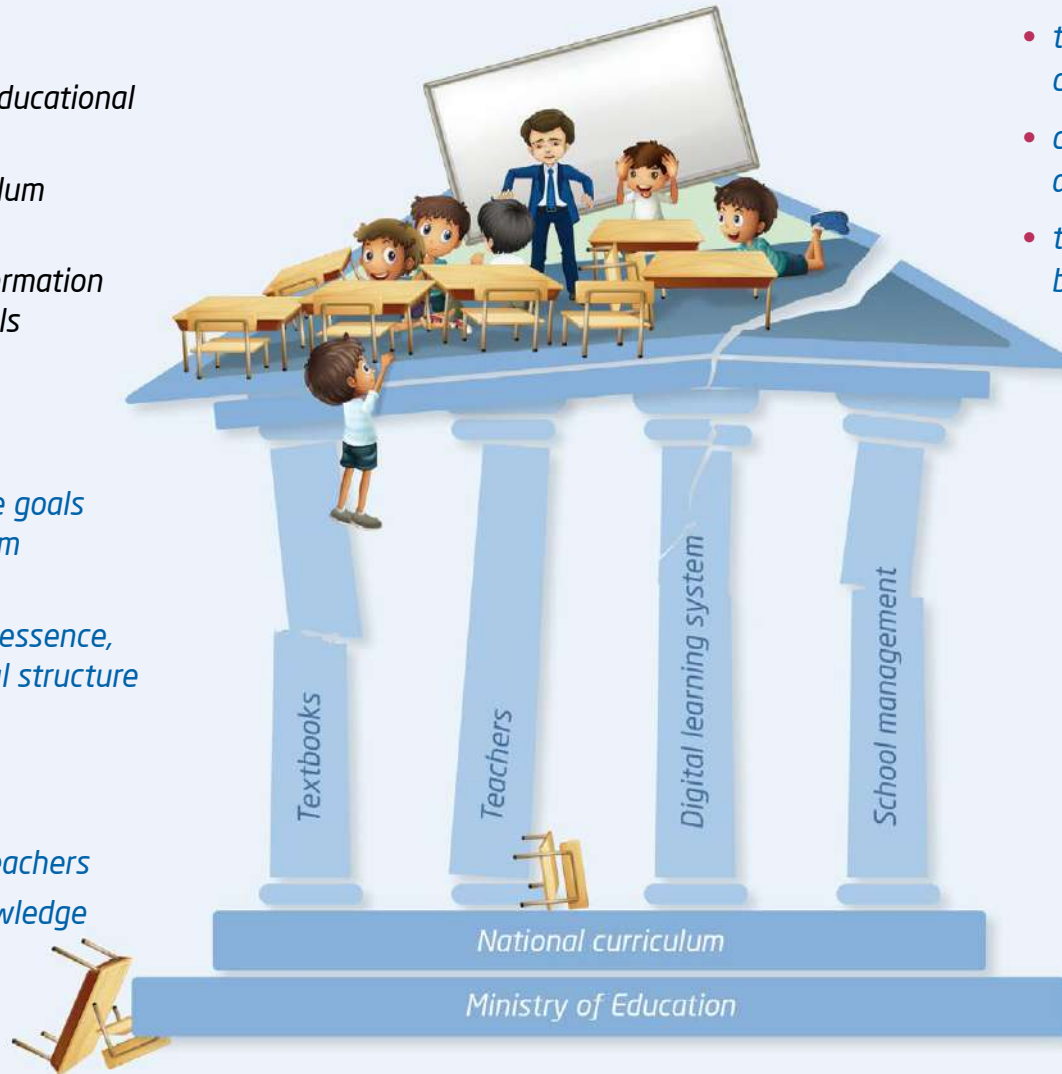
- one or more pillars of the educational process are unstable
- too large amount of curriculum to be processed
- not appropriate flow of information between teachers and pupils
- unmotivated pupils

Textbook:

- textbooks do not follow the goals established in the curriculum in the right way
- do not highlight enough the essence, do not have the right logical structure
- lack of visual aids

Teacher:

- not appropriately trained teachers
- lack of methodological knowledge
- lack of motivation
- not sufficient digital competence



Digital tools and educational materials:

- there are ICT tools but without adequate digital curriculum
- digital curricula do not form an integrated system
- the teacher does not enjoy using the tools but rather becomes their servant

Education management:

- lack of knowledge about schools work, about the individual work and development of pupils and teachers
- lack of effectiveness in administration and work management

Core curriculum:

- the curriculum is divorced from reality, it is unable to link traditional and up-to-date knowledge together

Key issue of educational innovation today:
How can we render classroom work more effective?

Even the most up-to-date tools and computers are mere objects without intelligence and soul being incapable of substituting for teachers' work - they can only provide help in its completion. These devices acquire meaning solely when making the school education process and the direct communication between pupils and teachers more effective.

mozaBook is a tool which suitably helps teachers' work, since:

- does not delay but **accelerates the course of the lesson**, removing many time-consuming tasks
- can be directly **incorporated into everyday practice** since every element, application, visual aid and tool is assigned to the standard curriculum
- based on the student's continuous feedback, the **teacher can modify the lesson plan**: slow down or speed up the lesson, repeat the requested sections, complement important details with special comments
- can customize the system by promoting and managing the learning process with **personalized explanations or exercises** made for children.



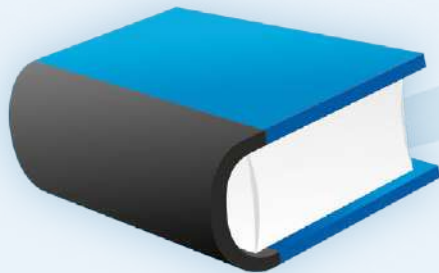
Combines the advantages of textbooks and computers for students

- Takes into account that today's children are used to the colourful, rapidly changing world of films, TV and the Internet who can more **quickly comprehend pictures** giving a need for visualization of this kind.
- Pupils can work with traditional textbooks in the classroom, yet now in a way that is more spectacular and understandable for them. They **analyse their figures, can discuss images and flowcharts**. They can work with the texts and enhance the essence of textbooks. This is how pupils can acquire the material more smoothly at home.

The bridge between traditional and digital education

As the knowledge of the modern world grows rapidly, the tools at our disposal become continually renewed. Today, it is no longer enough for teachers to hand over their own previously acquired knowledge to pupils. Education must keep up with development and must utilize technological achievements for its own benefit. However, pupils and teachers will always be at the heart of the education process.

Textbook



- traditional tool, popular among teachers
- ensures the completion of the curriculum in content and on time
- reliable syllabus written by experts
- logically structured text, the substance can be annotated



mozaLearn

The mozaLearn integrated digital educational system combines the advantages of both tools.

Computer



- modern tool, popular among pupils
- interactive, can be completed at an individual pace, provides broad background knowledge
- variety of activities, games, tools
- illustrative, visualizes processes through animations



The **mozaLearn** integrated system

The mozaLearn is a professional system covering the entire school system (K-12, all subjects) satisfying all needs concurrently, **that has been designed specifically to help teachers' work.**

- The system is based on the mozaBook software developed for interactive whiteboards into which **all the printed textbooks used in locally can be uploaded and immediately converted into a digital interactive textbook.**
- The teacher receives a modern tool system (3D models, interactive tools) alongside the digital textbooks that can be used on an interactive whiteboard **assisting integration and more effective processing of the curriculum.**
- **Pupils also have access to the system through the Internet** (mozaWeb) so the same educational environment can be used from home that pupils meet during class.





for Teachers

Why beneficial for teachers

Built on the already existing textbooks

Teachers continue to use their well-known, standard textbooks

Spectacular content

Teachers can easily involve pupils in classroom work

Intuitive, simple use

The teacher quickly gets a sense of achievement that motivates them to further explore the system

Beginners can be professional users too

Already with the basic use of mozaBook, the teacher can give exciting lessons

Everything works within the system

The teacher does not even have to leave the software application in order to reach external content

Sharing options

Lesson plans prepared by innovative teachers can also be made available for other teachers

User levels

Proceeding step-by-step, the teacher gradually reaches the professional user level

Benefits

for Teachers

- Teachers apply their **standard, well-known textbooks and workbooks** on the interactive whiteboard, complementing them with eye-catching content.
- Using mozaBook, teachers deliver high-quality illustration to pupils that is specifically developed according to the needs of education, providing spectacular and interesting demonstrations arousing pupils' interest. Consequently, they will become highly motivated and **more easily involved in processing the textbook material**.
- The basic level use of mozaBook **does not require long training** so the teacher can use it confidently and add spectacular elements to the lesson right from the beginning.
- One can get used to the handling of mozaBook easily and quickly. It does not require one to open any external programs because an **integrated interface is used** to reach all content.
- The gradual acquisition of the use of the system is built on such an internal logic that, proceeding along it, teachers **can smoothly get** from minimal digital tool use up **to an expert user level**.
- Teachers **can easily get a sense of achievement**, that motivates them in acquiring deeper knowledge of the system.
- The interactive educational content is **structured** according to subjects and years **on an integrated interface** in order to be easily found.
- Lesson plans, presentations and exercise books created by innovative teachers **can be shared** at both school and national level and so are also **available for their colleagues as well**.





for Pupils

Why beneficial for pupils

Enjoyable, motivating

Modern tools are applied with much greater enthusiasm improving pupils' learning performance subconsciously

Professional illustration

Spectacular figures, videos and 3D animations facilitate quicker understanding

Age-adjusted tools

Pupils use the tools first as a game and later as a task, becoming more and more skilful

Integrated user environment

The same user interface is applied both at home and at school regarding every school subject

Digital literacy

While learning, pupils also become skilled computer users by using the tools of the system

In 24 languages

Provides assistance in mother tongue and foreign language learning capably for all age groups

Benefits

for Pupils

- Pupils are the focus of education.
- Pupils are open and **receptive to information technology applications** and require spectacular illustration. The use of digital tools is natural for them. At the same time, they still have to acquire the traditional curriculum.

Pedagogical research shows that figures and animations significantly help realization and understanding, sequential learning textbooks is **essential to the creation of complex and permanent knowledge**, and to the development of the internal logic of certain things.

With the help of mozaLearn system, pupils enjoy all the advantages of both tools. The same tools can be used at school and at home: textbook and computer together provide a complete background complemented by the Internet.

- **Tools are adjusted for age-dependent characteristics.** There are games, self-assessment quizzes, attention and concentration developing tests, self-creation of problems exercises, interactive experimental tools.



- Pupils **may be given customized exercises** that can be solved on a computer at home. Besides solutions, the lexicon, image bank and tools of mozaBook can be applied by the pupil for further research.
- Pupils can use a computer, function-drawing software and a number of tools while doing their homework. This way they can **become skilled computer users** and routinely perform most basic user activities.



for **School systems**

	Immediate benefits	Long-term benefits
Only one system in every school	<i>Coherent content in every local school</i>	<i>Quick development of user community</i>
Does not require technical development	<i>Deployable in each school</i>	<i>There are no maintenance requirements other than the most standard</i>
Built on already existing textbooks	<i>Immediate coherency between the curriculum and digital materials</i>	<i>Compatible with the prevailing curriculum, adaptable and flexible</i>
The software interface is in 24 languages	<i>Can be immediately introduced, applicable for lower grade pupils</i>	<i>Does not require additional translation resources</i>
Modern interactive content	<i>Virtual storage room available for all teachers</i>	<i>Ever-expanding content by community of users</i>
Statistics on usage	<i>The usage of the system can be monitored</i>	<i>Targeted assistance to those who were left behind</i>



for **School systems**

- The system **uses the already existing textbooks**, thus the government is not required to develop new textbooks for the implementation of the system. This way it is **compatible with the prevailing curriculum** and **can be upgraded** as soon as the curriculum or the textbooks are changed.
- **Can be implemented in every school simultaneously** because of the minimal hardware requirements, and can be used with the existing tools of local schools.
- Applied tools: interactive board (optional), projector and computer. **Does not require further technical developments** and it has no unusual or special future maintenance requirements.
- Programs are translated to the local language, while developing their operation we have taken local particularities into consideration. Upon request, we can extend it with specialized local content and **further developments with new applications**.
- **It makes broad statistical data collection possible concerning the user habits of schools and teachers**, meaning it is easy to control how the implementation of the system takes place and to identify those schools that require targeted extra training.



- The advantage of a single nationwide system is that it can be implemented in all schools at the same time and the **steps of introduction can be planned** and easily monitored.
- **Already tested**, market leader system **under constant development**, operating in other countries. Development is **based upon practical educational experiences**.
- Interactive educational content developed by Mozaik Education is steadily increasing, **the government has access to the regularly upgraded content**.

Product overview

- *mozaBook*
for interactive boards and classroom work
- *mozaWeb*
for digital home learning
- *mozaBook tablet*
mozaBook for mobile devices
- *mozaMap*
digital maps for interactive boards
- *mozaLog*
school administration system



mozaBook

- for Teachers
- for classroom use
- for interactive boards



mozaWeb

- for Students
- for learning at home
- on the Web or Tablet app



mozaLog

- for Schools
- for school administration
- online on the Web



The most important element of the mozaLearn system is the **mozaBook software, optimized for interactive boards and classroom use.**



mozaBook 4.5

mozaBook

for Teachers

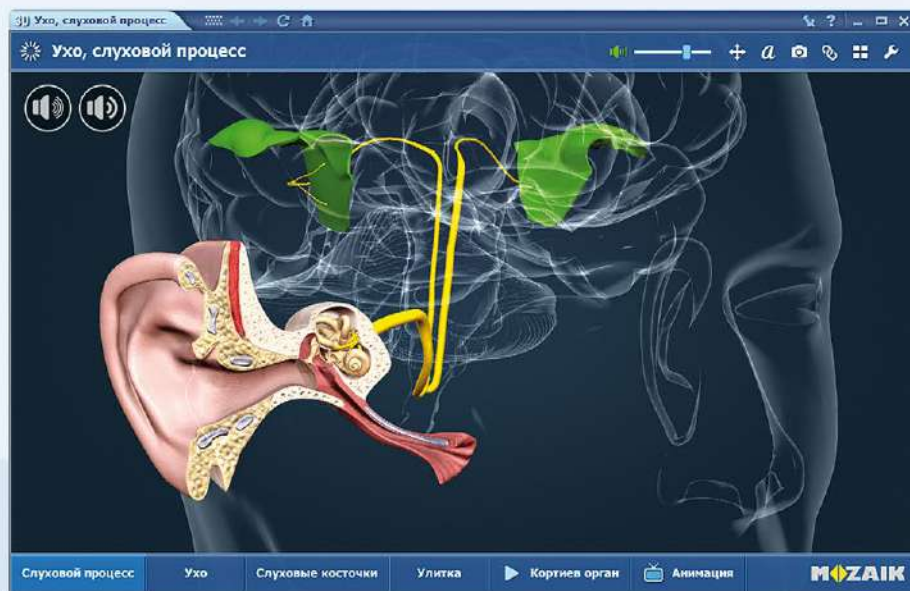
for classroom use

for interactive boards

mozaBook allows teachers to use familiar textbooks and workbooks, projecting them onto an interactive board during lessons. Teachers can also enrich the books with interactive activities for students.

Simple and intuitive to use, mozaBook also offers built-in tutorial videos and interactive guides that help teachers and students use the software and content to the fullest.

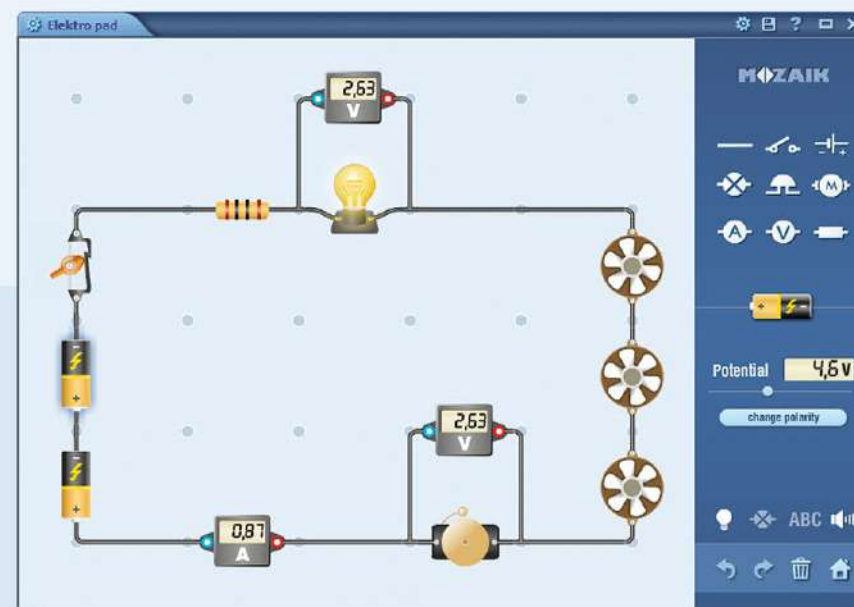




mozaik3D scene

mozaBook offers more than seventy thematic applications which help teachers catch pupils' attention and increase their engagement. mozaBook includes tools for visualization, instruction and assessment all in one.

The built-in skill development, visualization and experimental tools in the software help teachers visualize and help pupils better understand, acquire and practice various concepts in many different subjects.

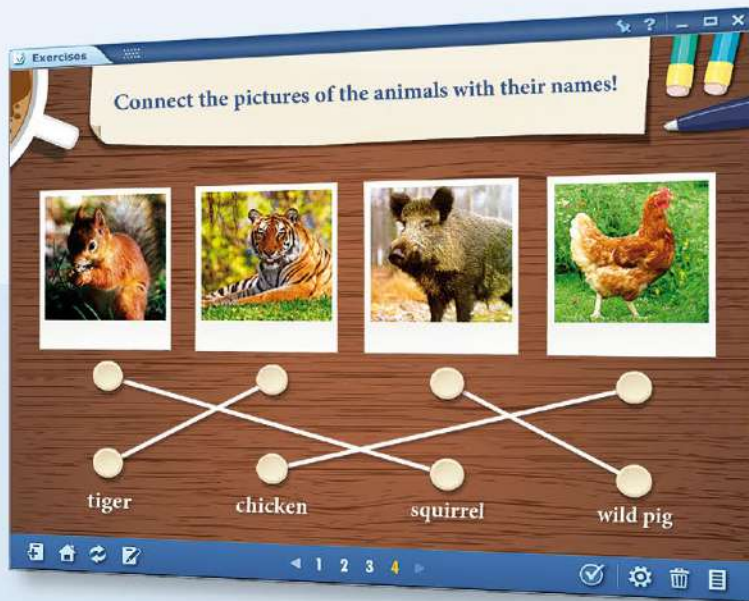


mozaTool app





In order to prepare next day's lesson, teachers can also use mozaBook on their computers at home. The full content of the media library is at teachers' disposal, allowing them to enrich their textbooks and exercise books. The **presentations and learning material developed at home can be synchronized** onto classroom computers.

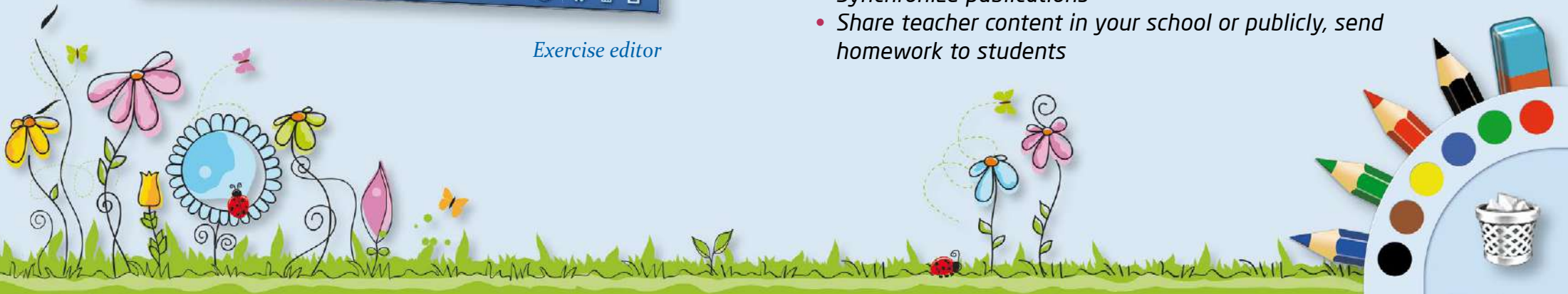


Exercise editor

mozaTools, 3D scenes, videos, and other elements of the media library can be saved as icons on the margins of textbook pages or in presentations, and later opened in class with a simple click.

Additional features include

- Available in 30 different languages
- Display digital textbooks, enlarge page segments or textbook figures and play interactive content
- Run built-in, subject-related applications
- Create custom tests in the Test editor application
- Import PDF documents, create digital exercise books and animated presentations
- Intelligent drawing tools, relations diagrams
- Planar and 3D figures, image and drawing gallery
- Video and audio recorder and player
- Interactive 3D models and animations
- Printing options
- English tutorial videos
- Use on- and off-line
- Synchronize publications
- Share teacher content in your school or publicly, send homework to students





Students have access to digital textbooks and complementary interactive content through our online platform, so the same content from school lessons can be accessed at home.



mozaWeb



mozaWeb

for Students

for learning at home

online on the Web

mozaWeb is a unique portal for students to learn and for teachers to prepare at home. Digital textbooks and the interactive content, tools and games within each book are all available on mozaWeb.

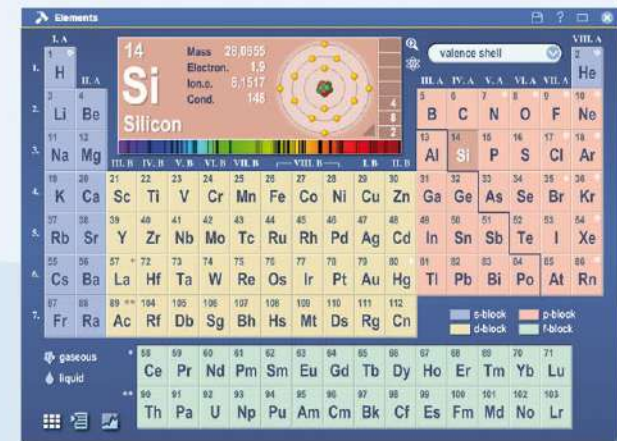
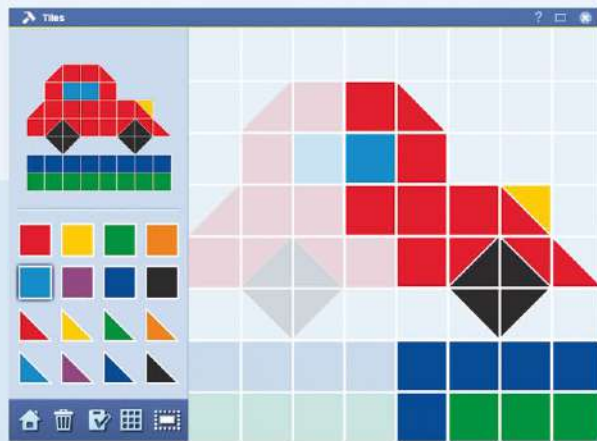
At home, students can access the same videos and 3D animations seen during their lessons or those recommended by the teacher. Teachers can also create interactive worksheets and assignments for students to complete as homework.

mozaWeb only requires an internet connection and browser. There is no software to download. Students and teachers can access our entire media library from anywhere with a simple login name and password.



Students can **complete homework assignments** created and sent by teachers as well as **read and interact with their digital textbooks**. Teachers can login to see who has completed their homework and check students' results at their convenience. The mozaWeb platform also allows teachers to **share the exercise books and lesson plans** they create in mozaBook with other teachers.

Numerous skill development games, demonstration tools and virtual experiments **make learning and practicing more interesting**, providing a unique way for students to both revise and further their knowledge.



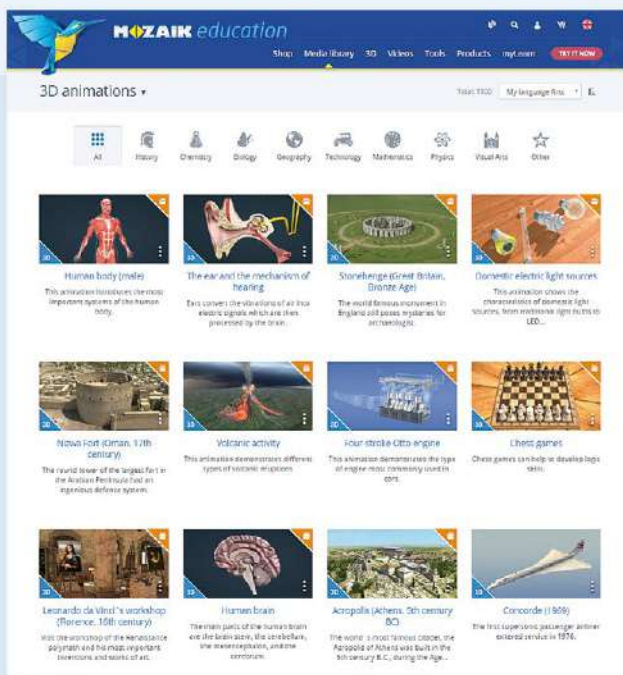
Alongside using digital textbooks and completing assignments created by their teachers, students can use commonly applied didactic tools and can review and open media library content, organized by school subject.





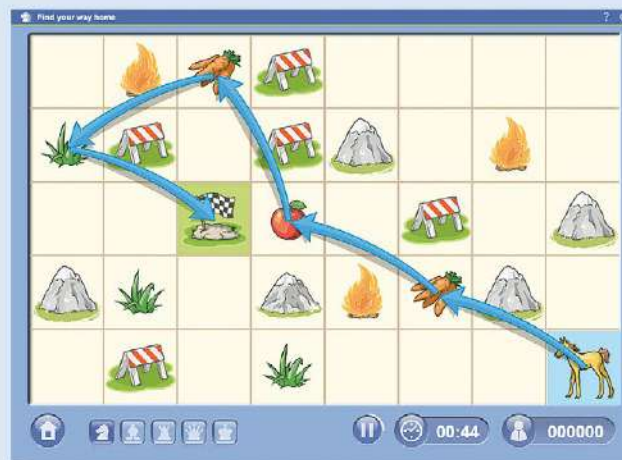
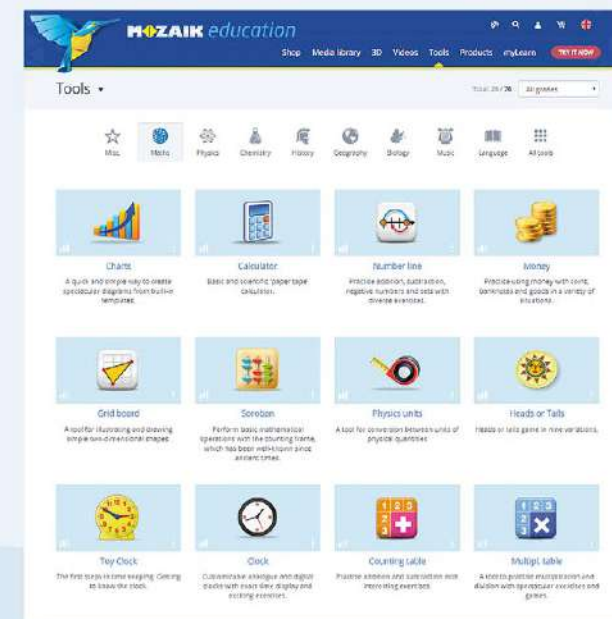
Media library

The media library contains the interactive content of textbooks in an organised, searchable format. Digital lessons, videos, sound files, pictures, 3D animations, exercises and explanations can be viewed in alphabetical order in the currently open textbook, in all textbooks of the given subject or in the entire media library.



Tools

More than 100 tools, grouped by subject, are accessible to teachers and students. Their number and functions are continuously growing. Students are provided with great opportunities for playful learning, practicing, or immersing themselves in the given subject.



Games for practice and skill development

mozaWeb's continuously expanding range of logical, practice and skill development games, in addition to being entertaining, helps students practice and deepen the knowledge they acquired. Students can even play with friends or classmates using the online games.



The media library on mozaWeb contains over 1,200 **3D models and hundreds of educational videos, pictures, audio files and exercises.** With a mozaWeb Premium license, you can access all of the content in the media library, including thousands of interactive items organized by school subject.



Additional features include

- Available in 30 different languages
- Display digital textbooks, enlarge page sections and textbook figures, play inserted digital content
- Run built-in, subject-related applications
- Built-in video and audio player
- Built-in 3D player
- Personal account and storage space for teachers and pupils
- Search and use media library content
- Homework function



Classroom management

MozaBook allows teachers to start a virtual classroom and invite students to join it. **Students can connect to the class work using their tablets.** For this, the teacher's computer and the tablets must be connected to the same Wi-Fi network, it is not necessary to be connected to the Internet.



Teachers can always see who is connected and who isn't, as well as get screenshots any time, to make sure everyone is on track.

Teachers can also **share pages of a textbook or exercise books directly to students' devices.** In addition, teachers can send tools, games, assignments, worksheets, videos or images to students. Teachers can also keep track of worksheet completion and check students' results on their computer.



Homework - online assignments

Teachers can set the exercises created with the Test Editor as homework. With mozaBook, teachers can manage homework assignments set for classes, groups or individual students.



Benefits:

- Teachers can easily create exercises with the Test Editor for which they can also use extra interactive content from the Media library.
- The system records homework assignments that have been set and submitted, so they can be easily evaluated and managed.
- The software automatically checks the answers and creates statistics of the results, making it easy to evaluate and compare students' performance.

Teachers can manage groups on the mozaWeb platform and view the details of the homework assignments that have been set and completed. These functions are also directly available on the Homework panel in mozaBook.

Students will be notified of the homework assignment, the topic and the deadline by email. They can open the homework assignment and solve the exercises online.



The assignments can be completed online with any Internet browser.



Students using tablets in school or at home can access the content in their textbooks straight from their portable smart devices

With our tablet applications, students can use their enhanced textbooks, including the extra content included in the textbooks, on **Windows, Android and iOS tablets**. Once downloaded the textbooks are fully functional on and offline.

Interactive tables of contents and the built-in search function helps users navigate in digital publications. Students can draw and highlight texts in books and exercise books. The system notifies students about new homework assignments, which they can solve and send back to their teacher.



Additional features include

- Access to the interactive textbooks
- Access to the digital exercise books
- Opening and page turning of digital textbooks
- Opening and page turning of digital exercise books
- Playing of interactive content in publications
- Simplified and professional illustrational tools
- Interactive table of content
- Text search function
- Built-in video, audio player
- Built-in 3D player
- Offline/online usage
- Synchronization of publications
- Homework function



Virtual reality in 3D models

Students can virtually explore the 3D scenes that have a built-in 'Walk' function on their mobile phones. If they place their phones inside appropriate VR glasses, they can find themselves in ancient Athens, the Globe Theatre or on the surface of the Moon.



Requirements:

- smartphone with a gyroscope
- VR glasses for smartphones
- mozaik3D application, downloadable for free from app stores
- mozaWeb account



LabCamera - Science exploration application

LabCamera is a science exploration application which enables students to carry out scientific experiments **using their laptops' or tablets' built-in camera or any external webcam.**

It's a cost-effective way to enhance STEM curriculum and promote scientific inquiry. Develops skills for investigation, problem-solving, critical thinking and deductive reasoning.



LabCamera has **7 modules** to cover all Science subjects.



Time Lapse



Kinematics



Motion Cam



Microscope



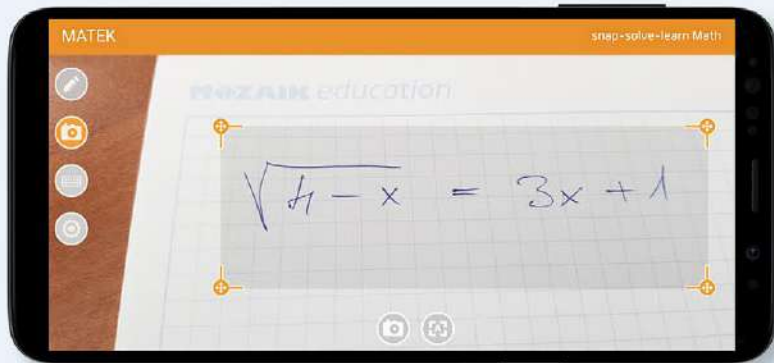
Universal Logger



Pathfinder



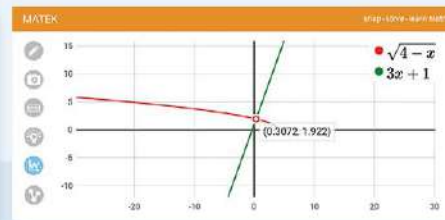
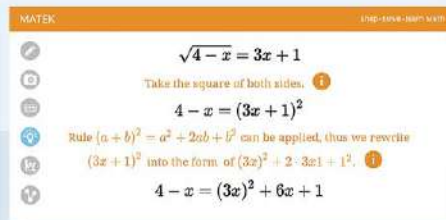
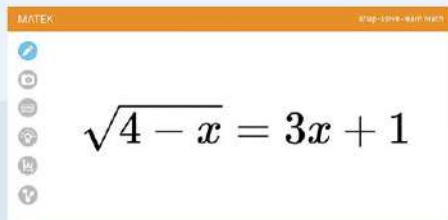
Graph Challenge



Matek app

The Matek educational application helps solve the most complex equations and understand how to find the correct result. Snap a picture of the equation or write it on the display and the app will gradually guide you through the solution.

Go through the solution step by step. If possible, solve problems individually or ask for hints when stuck. Have a look at the simplified solution of the whole exercise, or access more detailed explanations with one click.



Fizika app

The Fizika app offers an exciting user experience and the opportunity to play. Learn while having fun and understand how the surrounding world works. Use the application on a smartphone or an interactive board in school.

Observe a mechanical process, model it with a few clicks, then play on your device as many times as you wish. This allows for examination of what happens and leads to and understanding of the underlying physical phenomena.



3D viewer for mobile devices

Our application has been designed mainly for students between 8 and 18 years of age. The interactive educational scenes related to History, Technology, Physics, Mathematics, Biology, Chemistry, Geography and Visual Arts will turn learning into an adventure.

Our interactive 3D scenes can be rotated, enlarged, and viewed from pre-set angles. Navigate through the complex scenes easily with the help of the predetermined views. Most of our 3Ds include narrations and built-in animations. They also contain labels and entertaining animated quizzes.

If you place your phone in a VR headset you can take a walk in ancient Athens, look around the Globe Theatre or on the surface of the Moon. Some of the 3D scenes contain a walk function, enabling you to explore the scene yourself by using the virtual joystick.



WALK



ANIMATION



NARRATION



EXERCISES



VR FUNCTION



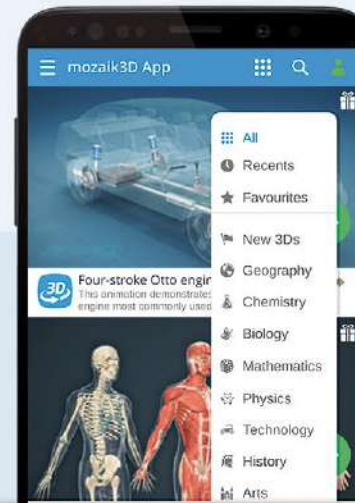
SEARCH, FILTER



DRAWING

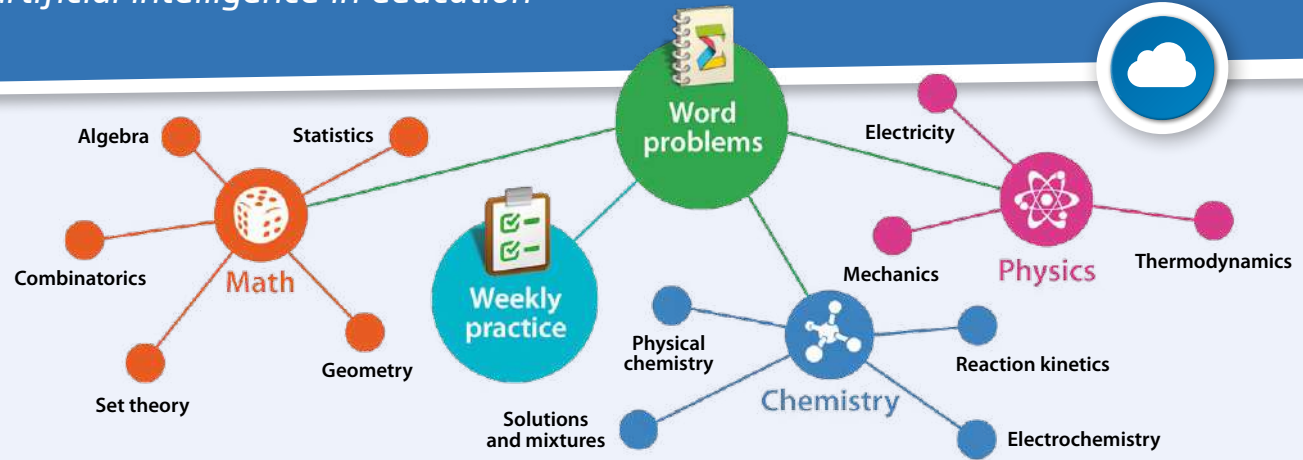


GAMES



Weekly practice tool / artificial intelligence in education

Weekly practice is a complex tool that **generates exercises based on the time allocation of topics covered by the curriculum of any given country**. It affords teachers and students the opportunity to work and practise with customized tests that allow for individual problem-solving, with the option to monitor results on a weekly basis.



MAT - 7 Week 35 Check

1. Frequency

A dice has been thrown several times. The outcomes are the following :

Based on this, what was the frequency of throwing a 1?

A 1 B 4 C 3 D 0

2. Adding fractions

Do the following calculation.

$$-\frac{171}{6} + \left(-\frac{80}{3}\right)$$

A $-\frac{271}{6}$ B $-\frac{325}{6}$ C $-\frac{301}{6}$ D $-\frac{331}{6}$

3. Diagram

Observe the diagram and find out the average temperature of the specified week.

A 7 °C B 10 °C C 11 °C D 9 °C

The user can select the subject, their grade, and the relevant week of the school year.

Based on the curriculum, the software **generates a custom, individualized test** to be solved and checked by the student. Results of the completed tests can be tracked retroactively with the help of the software.

If the student gets stuck while solving an exercise, the **Word problems tool** can be of assistance, **guiding the student** through the solution of each specific exercise **step by step**.

The **Word problems tool** is familiar with the rules of given field of natural science and can apply these when generating and solving exercises. This enables the software to generate any number of custom exercises and reveal solutions step by step.

Word problems 12/23

The area of a triangle is 25 m^2 , and its perimeter is $1,500 \text{ cm}$. What is the radius of the circle inscribed in the triangle?

steps of the solution

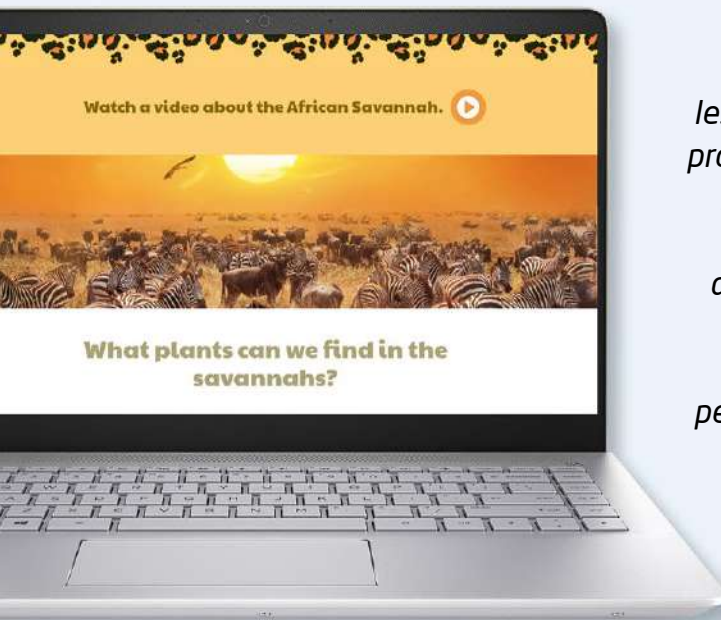
1. First make a drawing, collect the data and then write down the quantities you want to calculate. If necessary convert the units into common metric units.

- 2.
3. $A = 25 \text{ m}^2$ area
4. $P = 1,500 \text{ cm} = 15 \text{ m}$ length
5. $r = ?$ length
6. Write down the formula you are using. If necessary, rearrange the formula to solve for the unknown quantity.
7. $A = \frac{P \cdot r}{2}$
Area-perimeter-inner circle radius formula of the triangle
8. $r = \frac{2 \cdot A}{P}$
9. Substitute into the formula and do the calculations.
10. $r = \frac{2 \cdot \frac{\text{m}^2}{\text{m}}}{\text{m}} = \text{m}$



Digital lessons are modern, up-to-date digital materials that are processed and shared by users with the help of digital devices. The lessons are interesting, even their imagery has a motivating effect. The understandable, easy-to-follow line of thought make the learning experience enjoyable.

The lessons include a plenitude of interactive items: 3D scenes, educational videos, as well as tests for practice.

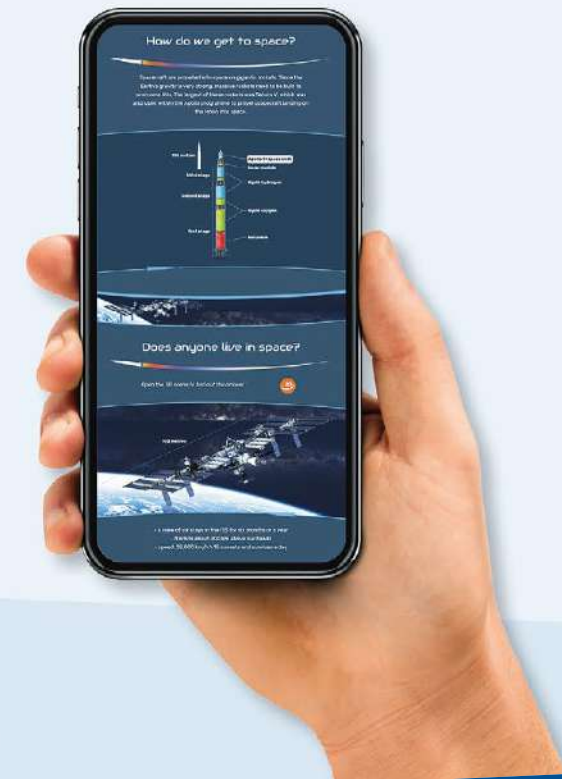


Teachers can access lesson plans that help process the curriculum in the most efficient way possible. These also provide ideas as to the allocation of time, realization of pedagogical aims, and smooth execution of lessons.

The spectacular content can be used on interactive displays, tablets, and smartphones.



The materials build on the teacher's role as facilitator and improve student cooperation along with social and digital competence. Therefore, skill sets that prove essential for future generations in the world of artificial intelligence are brought to the forefront.





mozaMap digital maps for interactive boards

School atlases and their digital versions for interactive whiteboard are made simultaneously. The versatile functions of digital maps broaden teachers' tools set during geography and history lessons, taking teaching to the next level.



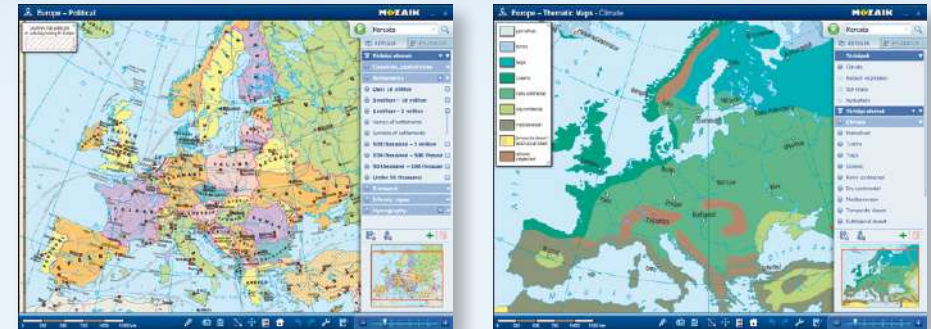
Unlimitedly enlargable maps

Maps are vector-based files so any segment **can be magnified to an arbitrary extent without any loss in quality.** The dynamic scale adjusts to the current magnification in real time.



Changeable layers, personalized views

We can search for text content within the maps and layers can be switched on and off one by one. **We can easily create a view that best adapts to the topic of the lesson** hence increasing efficiency.



thematic layers

map overview & pan tool

dynamic scale

zoom by area selection

zoom slider

Customized map views can be labelled and saved. Saving includes magnification, created drawings and the visibility of layers as well. The saved view **can be inserted into mozaBook** and retrieved from there with a single click during the lesson.

Substitute wall maps

mozaMap atlases do not require extra space, they are available anywhere, anytime, in the required number of copies. With them **we do not have to compromise between readability and a high level of detail.**



Illustrational possibilities

Freehand drawn lines, images, symbols and annotative bubbles can be placed onto individual layers, created by teachers in mozaMap.

The built-in drawing tool provides several kinds of possibilities for illustration including a geographical and historical symbol library.

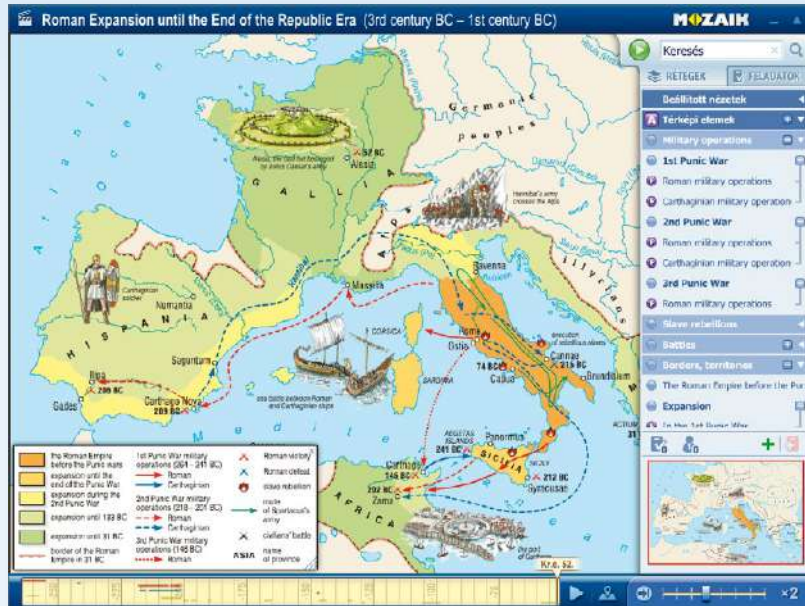
Drawings and other created illustrations can be saved and easily replaced, and their size adapts to the scale of the maps.



Exercises

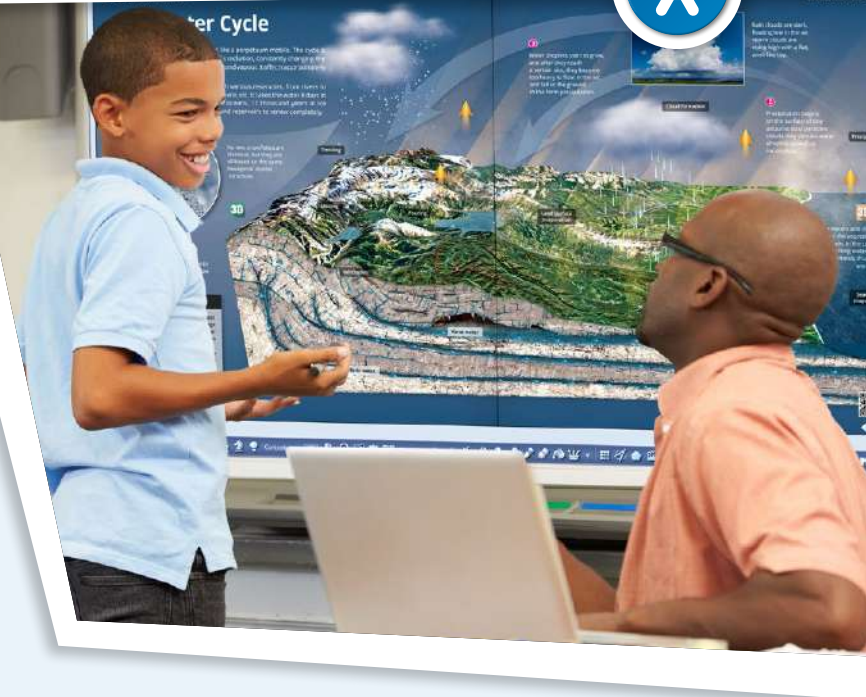
mozaMap allows users to create custom exercises on the maps. These exercises can be saved, shared and easily inserted into mozaBook.

Battle sites and other historical and geographical landmarks can be loaded onto the blank maps according to the teacher's needs. The students should match these events with the appropriate labels. When students finish their work, mozaMap displays the ratio of correct answers.



With mozaMap the user is capable of producing and generating exercises.

mozaMap automatically assesses the solutions given to the exercises.



Options for animation

By selecting and highlighting different characteristics or parts at various historic dates, our software allows pupils to follow the transitions between these events over time in an individual manner. This gives the possibility for the teacher to show on the map only the event to be discussed during the lesson.



mozaLog is designed to reduce the daily administrative burden on teachers and to be an effective means of communication both within the institution and with the parents.

- It is accessible from any **computer, tablet PC and smartphone** with an Internet connection.
- There is no need to install any additional programs or to have a system administrator. To use mozaLog you only need basic Internet skills and a web browser.

mozaLog - Digital gradebook

The mozaLog digital gradebook developed by our company is an educational information system that enables school staff to use a single interface for both administrative and organisational tasks. By using it, laborious and cumbersome management of traditional paper-based gradebooks becomes redundant.

Flexible and versatile

Simple administration

Statistics? No problem!

Printouts

Communication with parents

Safe operation

mozaLog allows direct and high level communication between the board of governors and the associated institutions, as well as between the school management, teachers, students and parents. Thus any user of the interface - depending on the user rights - can have direct access to up-to-date information any time.

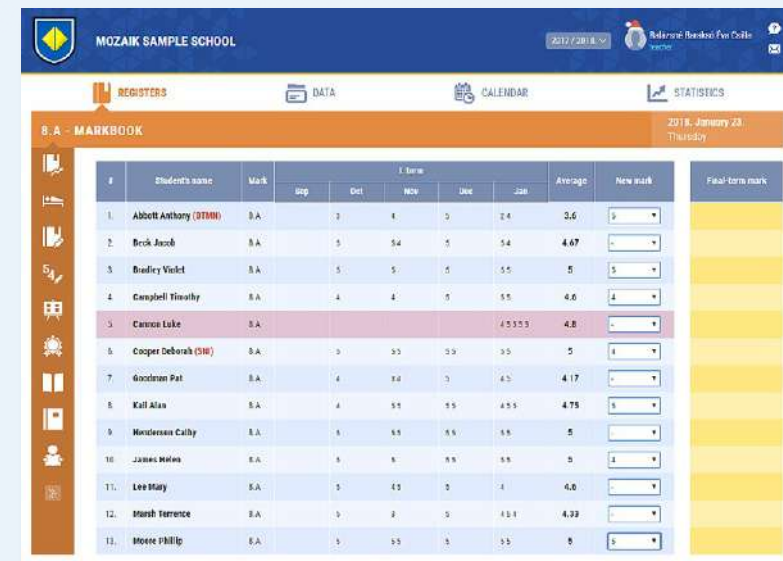


Teachers can access the markbook and the absence records of the classes they teach from their own page.

When entering grades, teachers can specify a grade type and add extra comments. This enables teachers to remember what they based the grades on even several months later.

The system enables teachers to fulfil their administrative tasks related to teachings anywhere and as fast as possible using any of the modern IT devices. Teachers no longer need to search for the paper-based gradebook, **since the digital gradebook can be used by several teachers simultaneously.**

Teachers can use their own page to enter the topic of their lessons, to review the ongoing work of each class, enter missing data and even to print the progress book for the entire academic year.



mozaLog
Markbook

Besides absences, late arrival, exemptions and lack of equipment can also be recorded.



mozaLog
Academic statistics

mozaLog can download student data from a central system. After importing the data, it is only the changes that have to be recorded to keep the administrative system updated.

The software creates full academic and absence statistics for classes with just one click. The statistics are instantly available for administrators, headmasters and even for educational authorities.

Reports of student absences from classes and of absence authorisations types (parental, doctor's, etc.) can be generated. The comparative charts of the electronic gradebook help to keep track of the changes in the academic results of classes.



mozaLog
Average grades chart

The comparative charts of the electronic gradebook help to keep track of the changes in the academic results of classes.

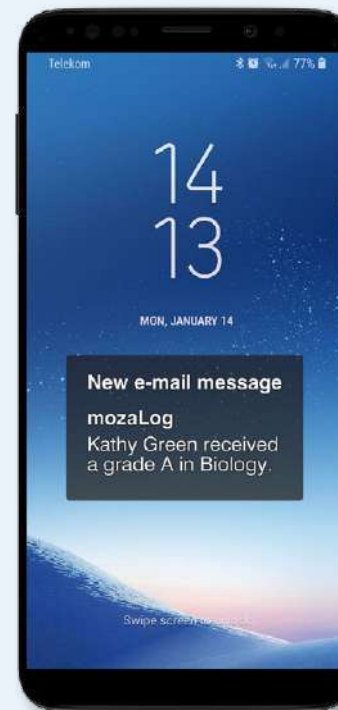


mozaLog
Timetable – headmaster's view

There are multiple ways to enter timetables: mozaLog can import timetables created in aSc TimeTables but timetables can also be uploaded as MS Excel spreadsheets.

Timetable changes that occur during the academic year can be entered via the **built-in timetable editor** of mozaLog.

Parents can follow their child's assessments, absence from classes or the evaluation of their behaviour and school performance. If they require, **parents can receive e-mail updates** of all new entries concerning their children. **Teachers can send reminders** about approaching school functions, trips or even exams, so students and parents are informed about their future tasks.



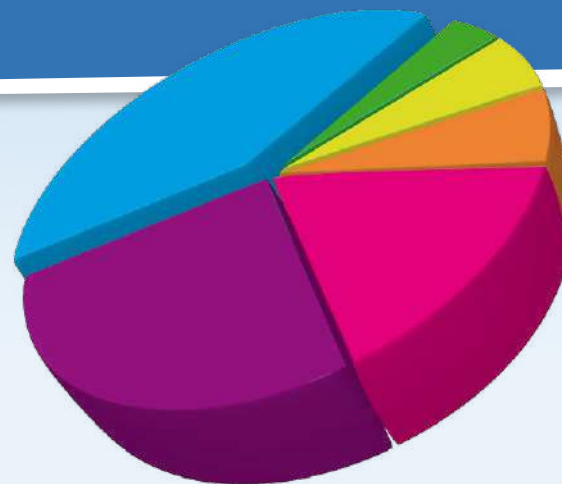
Additional features include

- Progress book
- Attendance book
- Assessment book
- Possibility to create student groups
- Possibility to create sub-groups
- Import or export student data
- Timetable editor function
- Managing teachers' substitutions
- Academic statistics
- Absence statistics
- School statistics
- Written report function
- Messages for parents
- Print function for gradebooks, progress registers, reports, certificates, overtime statements and all statistics



Statistics - monitoring the system

By implementing the mozaLearn system, the country's governmental institution responsible for education can **gain access to central statistics**, which informs on the current operation of the system and can contribute to the more optimal usage of the system in the future.



One can gain information on the **usage of the system and the devices used in it** (interactive boards, computers, tablets): to what extent and how the installed devices and software are being used in separate schools (which teachers are using them, for which subjects, continuously or just occasionally, etc.), which schools it is worthy to support with further devices in the future.

One can get information on the **efficiency of the implemented system** (checking the investment): which schools and which teachers are using it and with what frequency.

One can receive help to **plan future investments**: the information and experience received on the efficiency and operation of the system can contribute to the resources intended for this purpose being used more effectively in the future.

The way it works





Preparation

Editors place interactive content into the textbooks

Level 01

The teacher presents from a digital textbook enriched with illustrative elements

Level 02

Teachers themselves may also enrich the content of digital textbooks

Level 03

They further improve their use of mozaBook with the application of mozaTools

Level 04

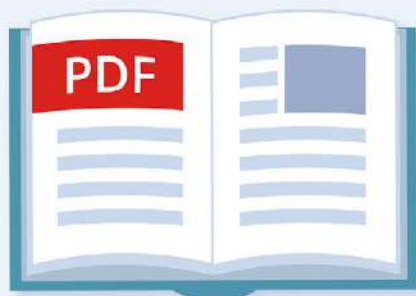
The teacher compiles worksheets with the test editor of mozaBook

Level 05

Creation of individually illustrated, animated presentations in mozaBook

Level 06

More complex use of the system taking advantage of the communicational possibilities among the constituent tools for making more and more extensive tests and presentations. Sharing of tests and presentations through mozaLearn cloud with other teachers and pupils.



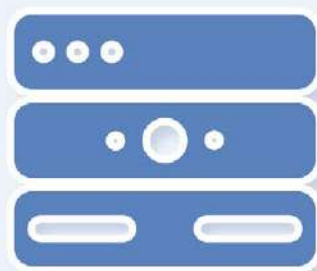
Your publication

Digital textbook creating

For the first step of creating digital textbooks, editors upload the digital version of printed textbooks used by teachers and students then complete them with extra digital content



Our + Your content



mozaBook Editor



Enriched digital textbook

- for interactiv boards
- for web browser
- for tablet



mozaBook Editor

mozaBook Editor is an online digital textbook editor software (authoring tool) that helps editors to **place extra content in the digital version of textbooks and to make interactive digital textbooks** with it.

Media library

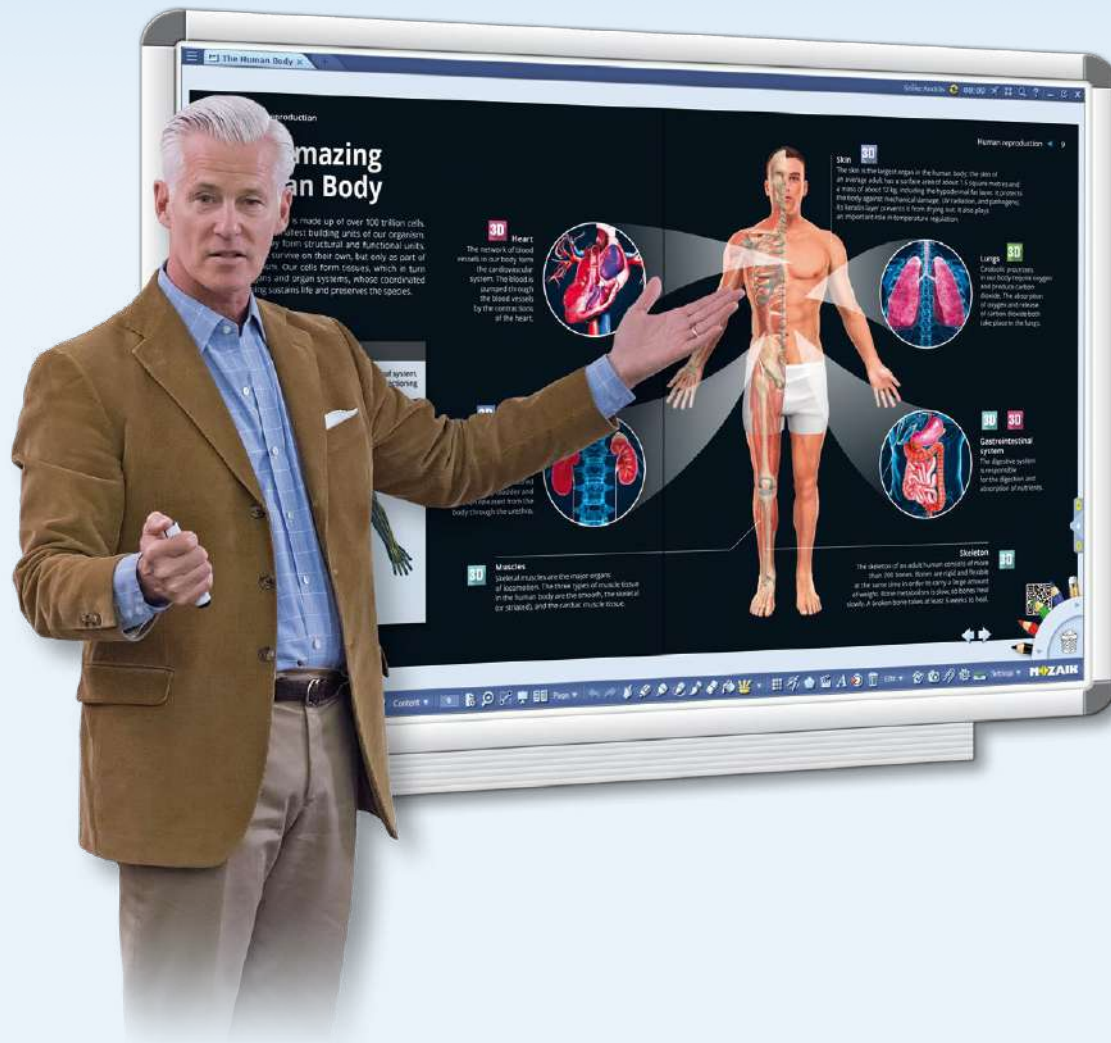
The Media library is the collection of digital educational content created by Mozaik Education **containing more than one thousand 3D animations, hundreds of video and audio files, images, tests and other supplementary materials**. Teachers can enrich the books themselves with content in Media library with a few clicks.

It contains **the mozaTools thematic applications and games** which provide a method for effective practising in all subjects and grades.

Mozaik Education **is continually developing** digital educational content, thus the volume of Media library **increases with numerous new elements every year**.

Everything compiled for a digital textbook:

- The software **uses the same, already existing PDF files** (used for the printed textbooks) as the material of the digital textbook, so it is unnecessary to recreate them in another file format.
- The basic content of textbooks (textual units, images, illustrations) is **automatically recognized and selected** by the software. This way these elements can be enlarged with a single click.
- Within the mozaBook Editor interface, all the content of Media library can be accessed directly, **structured by subjects and grades**, then easily inserted on the page of a publication.
- Besides the content of Media library, one's **own or even downloaded content can also be inserted** into textbooks.
- Having finished editing, the digital textbook package can be created with a single click allowing for **interactive board** (mozaBook), **web use** (mozaWeb) or **Android and iOS** environment.



Digital textbooks in classrooms, enriched with spectacular elements

*From the first time teachers use mozaBook they feel comfortable having their well-known textbooks on the board. This encourages them to explore more and find that they can **easily use the digital content the book is enriched with.***

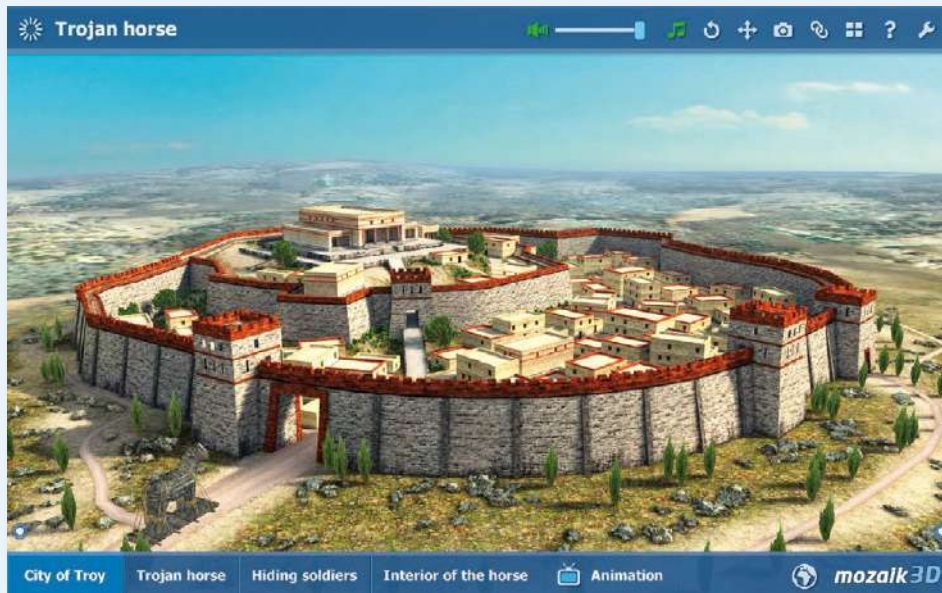
Ready-made visual materials, icons for digital content (3D animations, video and audio files, images, etc.) are inserted to the appropriate places of the textbooks. Clicking on the icon, the selected content opens.



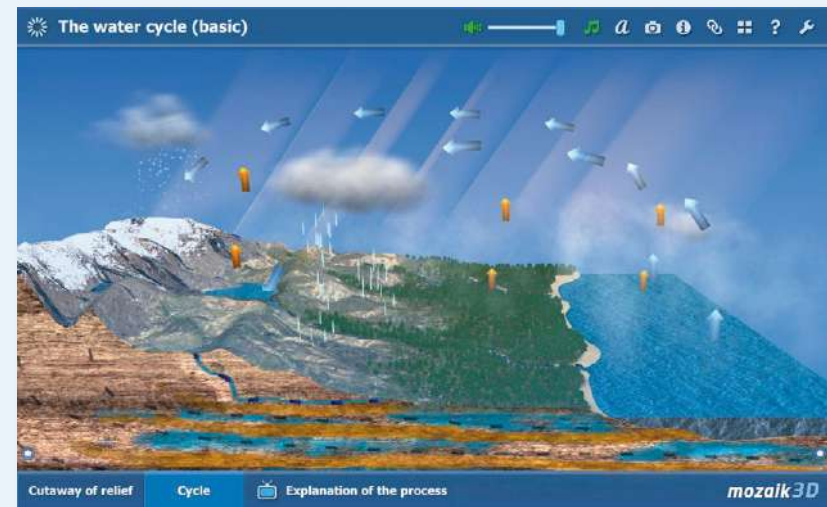


3D models in textbooks

With 3D models, the teacher can present the structures of past civilizations to pupils, they can get insight into everyday life of ancient times or study mythical historical events. Pupils can wander within a number of animations **provided with a variety of multilingual narrations.**



Geography 3D model



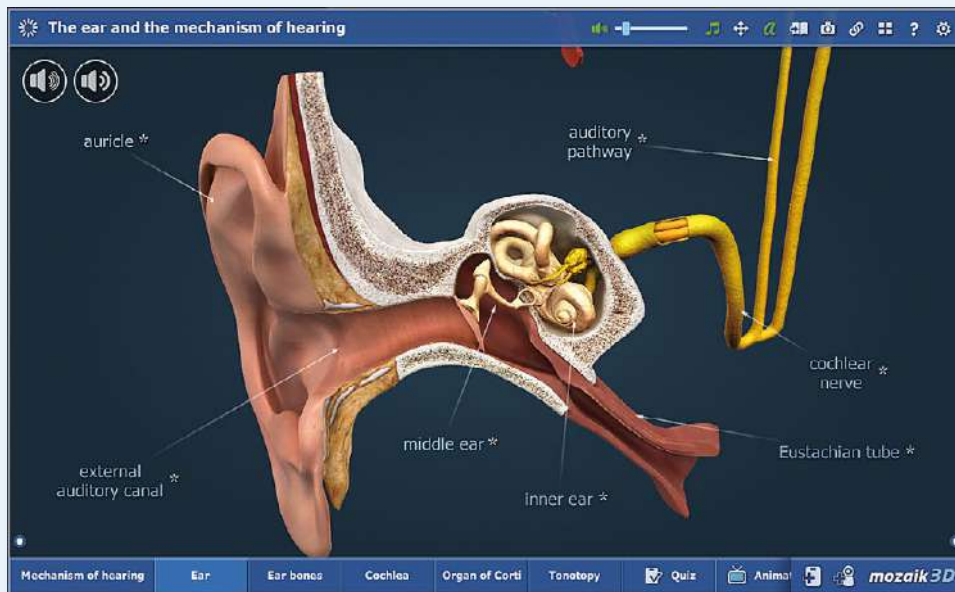


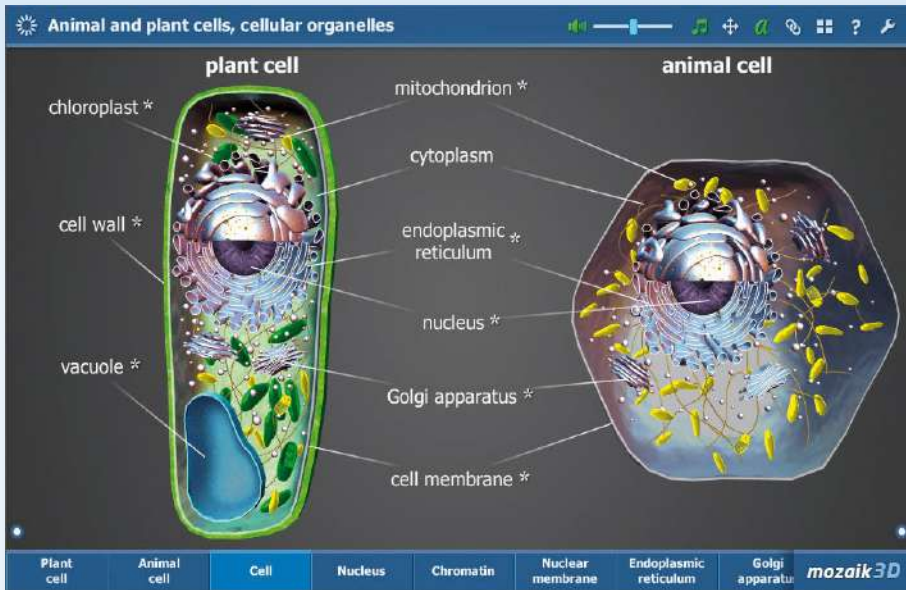
Models can be opened by clicking on the icon placed in the margin of textbook pages. Teachers and pupils can **enlarge, rotate and study them from different viewpoints**. The interface of every 3D model is integrated, and can be used easily and intuitively.



Biology 3D model

The ear and the mechanism of hearing



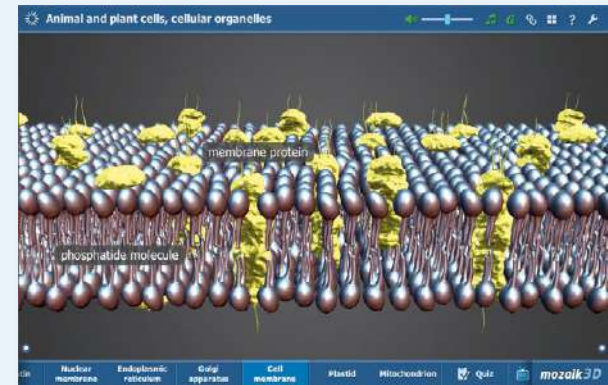
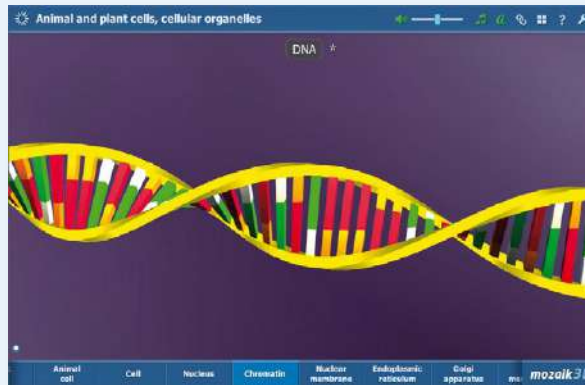
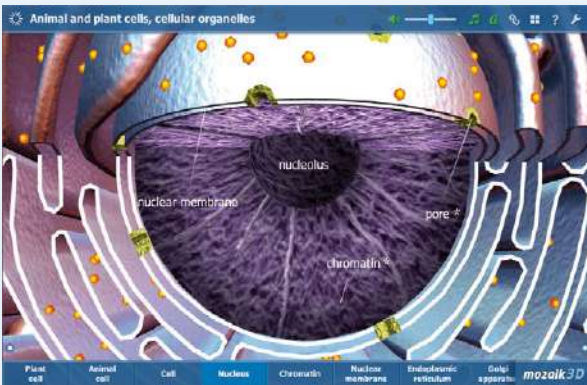


Biology 3D model

Animal and plant cells, cellular organelles

Exciting and animated exercises help the playful understanding of the material. Pupils can learn about old and modern tools, machines and technologies, gain insight into the underlying principles of chemistry, travel around in space and observe the Earth's natural wonders, living beings, and the patterns of nature and hidden secrets.

The models include several different points of view depending on which best represents the given topic. **The explanatory labels can be shown in different languages aiding the development of foreign language skills.**





Pupils have access to digital textbooks and the included content also at home

- *With the mozaWeb application, pupils have **home access, through the Internet**, to what they saw during the lesson. They can use the same material in the digital textbooks along with all the added extra content.*
- *This way pupils have time for the individual comprehension of those images, videos and animations they saw during the lesson or of which understanding is considered to be crucial by the teacher.*
- *Along with traditional homework, the teacher can connect homework to visualization tools and their completion is less burdensome for pupils.*
- *Within the mozaWeb interface, **the same visual world** is provided for pupils that **they became accustomed to during the lessons**, ensuring they do not have any difficulties in using the software.*





Media library - Teachers can insert their own ideas into the textbook

We have developed mozaBook so that teachers are able to insert the most diverse content into textbooks in the easiest way possible. This way the teacher, while preparing for the lesson, **can insert their own content next to that which is preloaded**. With this, the built-in media library of mozaBook provides assistance. The media library contains the digital educational content of Media library (3D animations, videos, images, audio files, etc.), however, teachers can insert images, videos and presentations **from their own computer or even from the Internet**. It is not necessary to leave the software interface, all this can be achieved on the integrated platform of the media library.



Within the media library, one can search for Media library content according to grades, subjects and titles and thus **the subject-related content can be easily retrieved**.

The teacher prepares the planned material at home. During the lesson they only have to retrieve the appropriate page and, at the right time, click on the desired icon in the margin.

The prepared content appears without any searching or time being wasted.



mozaTools - Skill developing tools

The use of tools has already played an important role in the improvement of the skills of the youngest pupils. Teachers, arousing children's interest, **make them practise their acquired knowledge playfully.**



 **mozaTools**
Counting table



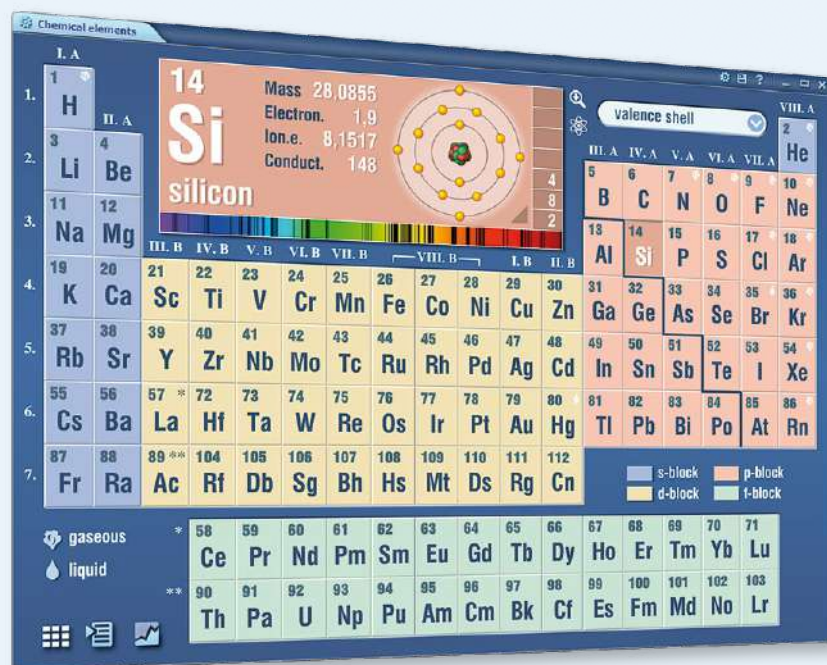
 **mozaTools**
Money

With these tools, a huge number of operations are completed by pupils in such a way that they consider them as games. Tools help teachers to be able to teach children **the most important knowledge through practical examples.**



mozaTools - Visualizing tools

Interactive visualization tools are those collections which provide targeted and subject-specific use. In these **digital storage rooms** all those tools that are necessary for the teaching of a certain subject can be found.



 **mozaTools**
Periodic table



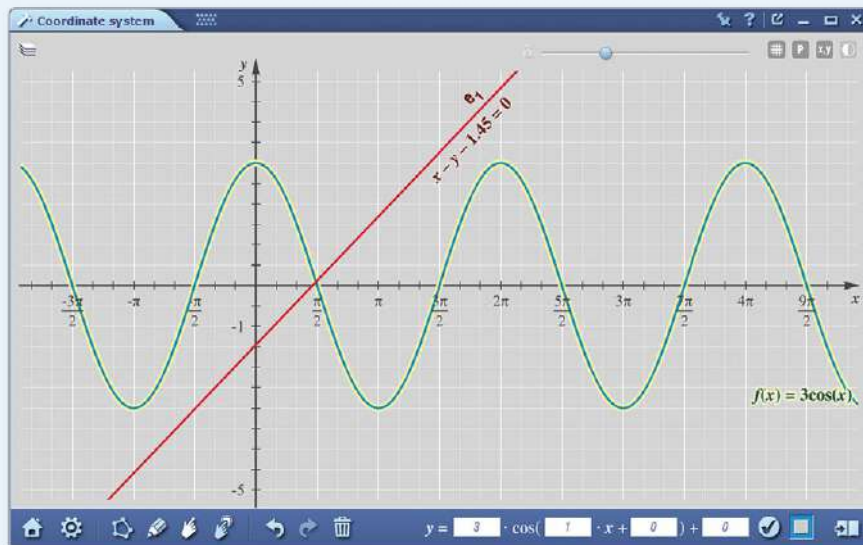
 **mozaTools**
Instruments

Optimized visualization for classroom use ensures students to compare data and information in order to be able to apply their knowledge effectively.



mozaTools - Instructional tools

Instructional tools make the **use and practice** of the lesson materials possible **within exercises**. Their crucial aspect is that the appearance, symbol system and complexity of tools **adapts to the age and level of the pupils**.



 **mozaTools**
Coordinate system



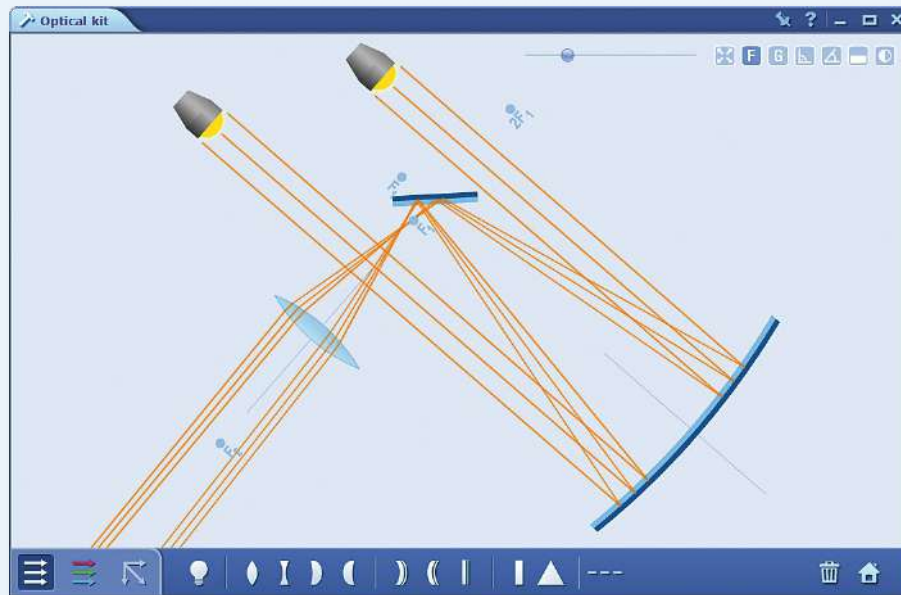
 **mozaTools**
miniScore

Operations and tests completed within the tools are evaluated and stored by the software itself. This way pupils **receive immediate feedback about their achievements**. Simultaneously, the teacher can also monitor the result a certain child achieved in the case of a particular test type. This way the teacher can give targeted assistance with practising.



mozaTools - Virtual experiment tools

With the most complex virtual experiment tools real **experiments can be simulated** on the whiteboard or on the computer. **Highly diverse experimental set-ups** can be assembled. The pupils can examine and analyse different special experimental arrangements based on their prescribed group exercise or their own ideas.



 **mozaTools**
Optical kit



 **mozaTools**
Electro kit

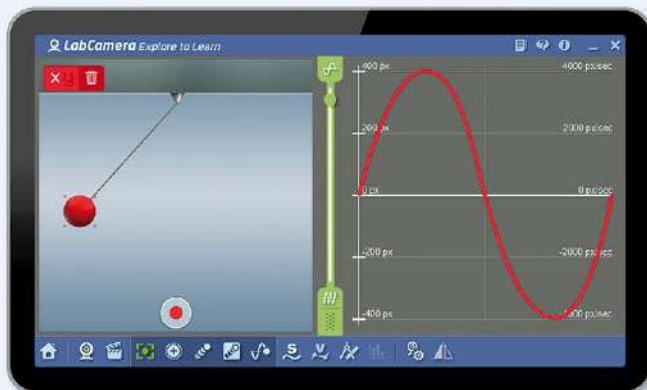
After the pupils have acquired all necessary knowledge, the teachers have the possibility to use these tools for assessment purposes. They can create exercise sheets using their self-created arrangements and can set them as tests or homework for the pupils. The pupils can solve the exercises by doing the necessary calculations or by using the same tool and recreating the required experimental arrangements.



LabCamera - Science exploration app

LabCamera is a science exploration application which enables students to carry out experiments **using their built-in cameras of smart devices or any external webcam**. LabCamera has **7 modules** to cover all Science subjects.

Time Lapse - The Time Lapse function helps you observe and better understand the slow processes in nature, such as the formation and migration of clouds, ice melting, the growth of plants, etc.



Kinematics

This module uses the picture of the webcam or pre-recorded videos for movement analysis and can track up to 3 objects at the same time.

Microscope - Built as a universal measuring tool, it enables students and teachers to measure sizes, distances, angles and areas as well as allowing the examination of microorganisms.

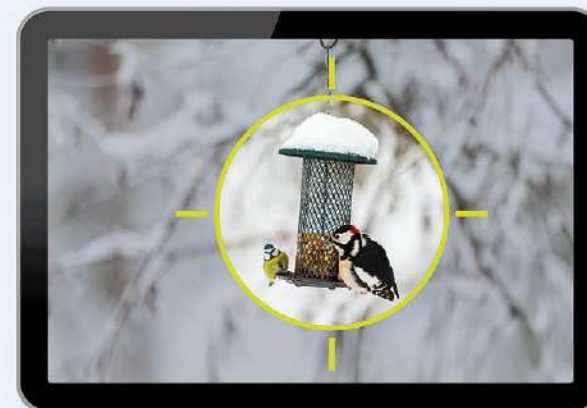


Universal Logger

The module can log any measurement instrument's data that has either a digital, radial-dial, or fluid-based display by 'connecting' it to your computer through its built-in camera.

Pathfinder - The Pathfinder module tracks and detects the unseen paths and patterns of moving objects and beings. Toggle between path and motion density maps to find patterns in seemingly chaotic motion.

Graph Challenge - Understand graphs through a game-like app that follows movement and compares it to a designated curve.



Motion Cam

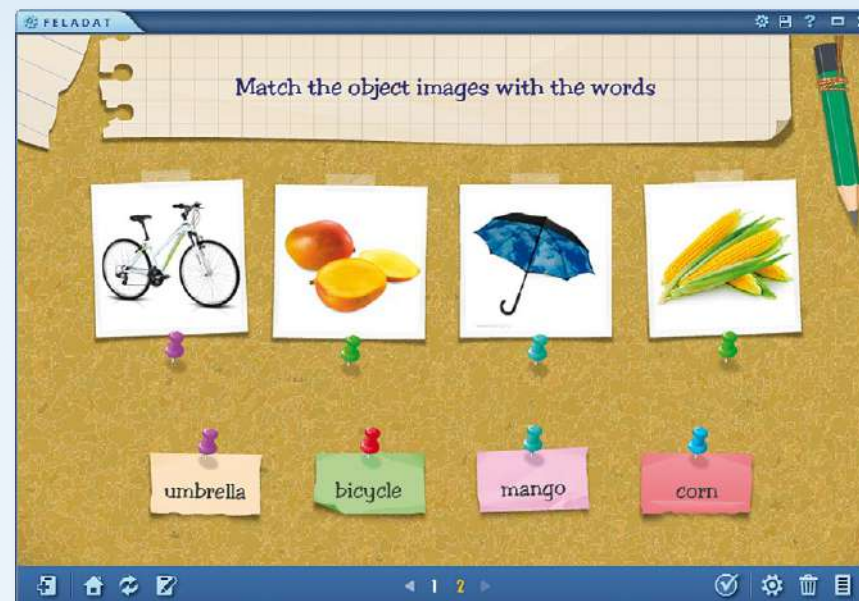
Motion Cam allows you to capture rare and intimate situations in nature; it works just like motion-sensor cameras.



Creating unique exercise sheets

The test editor in mozaBook includes several different exercise templates with which the teachers **can create diverse, spectacular exercises and exercise sheets**, even at home.

The so-created tests can be inserted into the relevant pages of the textbooks or can form individual workbooks or exercise sheets. When inserted into the textbook, the prepared exercises can be opened and displayed during the lesson without any time lost through searching.



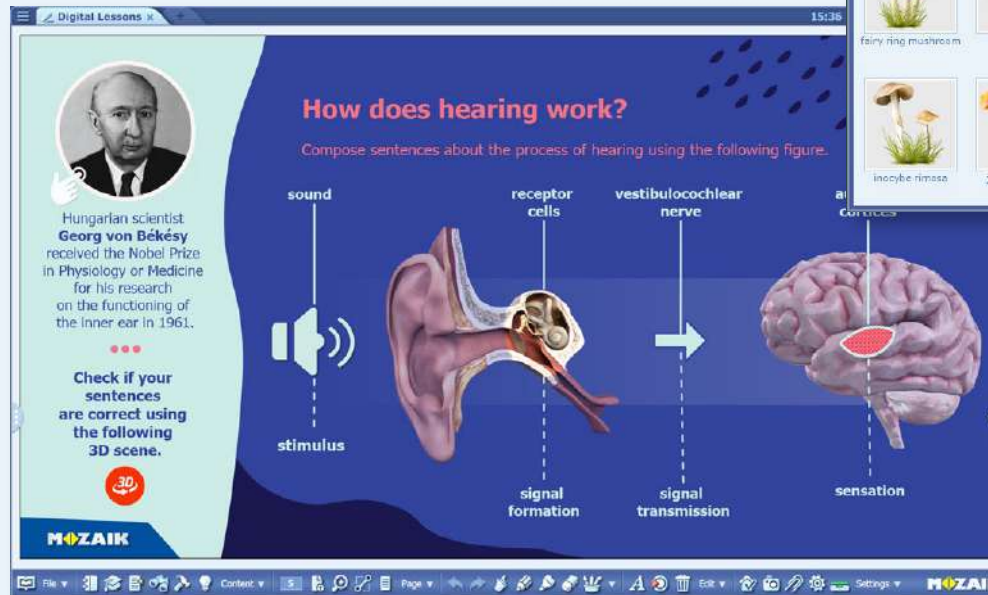
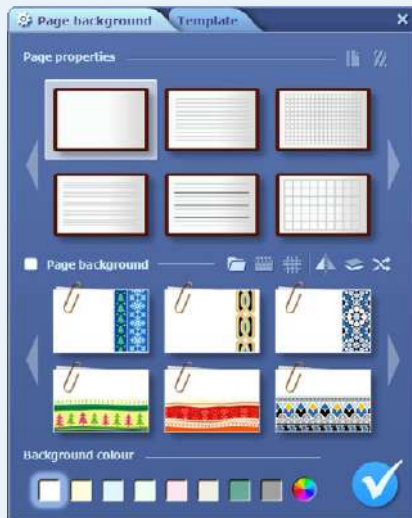
The software is capable of **generating its own exercise sheets** from the existing databases. The teacher has the possibility to choose from these generated questions or to exchange the questions for their own. This way it is even possible to efficiently create separate **exercise sheets tailored** to each pupil.

Using mozaWeb, the teacher can send the exercise sheets to the pupils as homework, or print and use them as traditional exercise sheets.



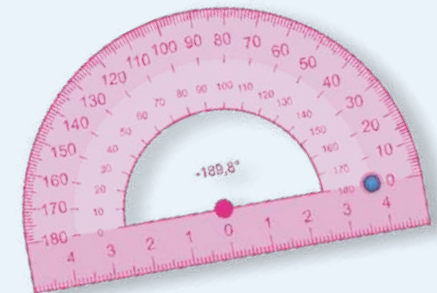
Personal exercise books, illustrated presentations

The teacher can create exercise books. These exercise books can be decorated with several in-built background images, and various ruling templates may be set for the different subjects.



In mozaBook's in-built gallery there are several categorized images and drawings available for each subject in order to make even more diverse illustrations.

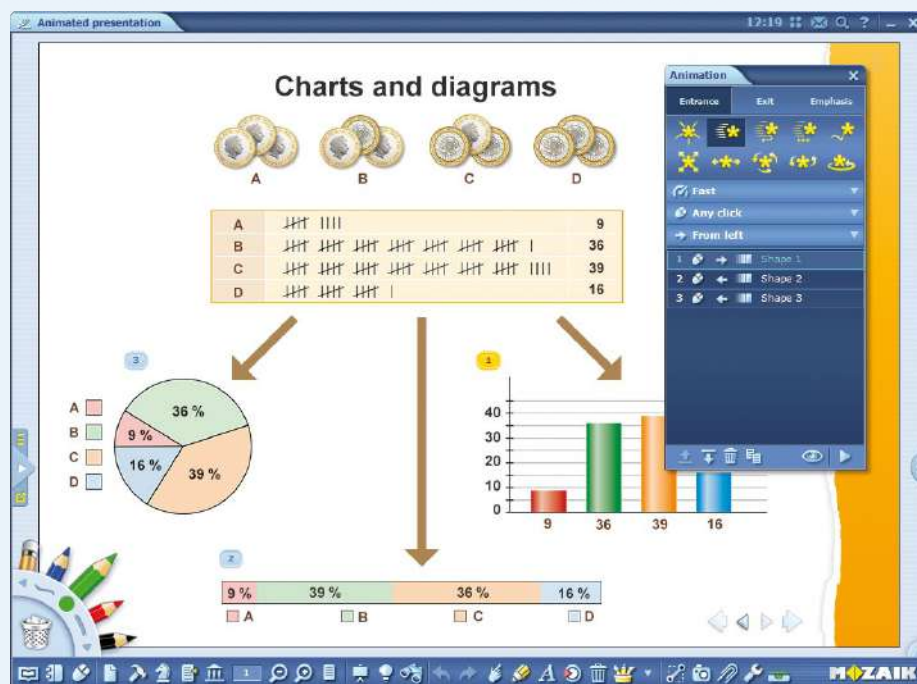
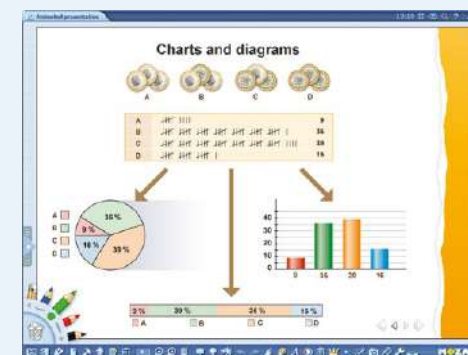
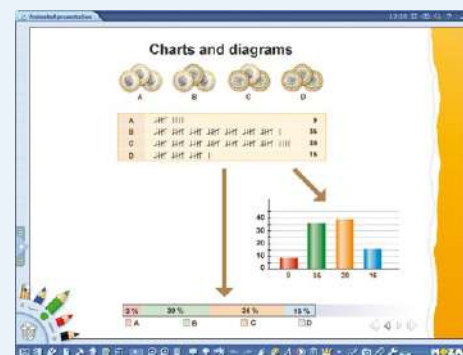
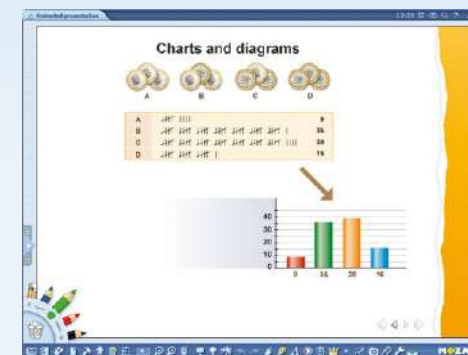
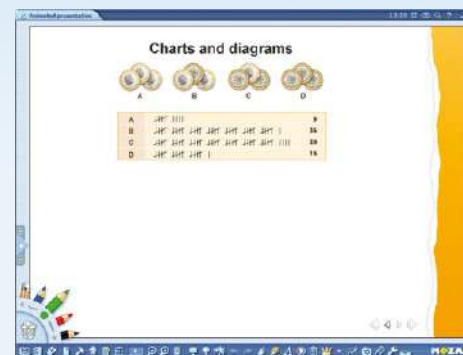
Into the exercise books the teacher can write, create hand-drawn images, insert flat and spatial geometric shapes, or can create mathematical constructions with the virtual compass and ruler.





Animated presentations, lesson plans

Using the in-built animation tool of mozaBook, teachers can create spectacular, animated presentations or lesson plans. The content **can be animated, automated according to the in-built templates** and the extra content can be played during the presentation.



To create presentations, the teachers can use texts, self-made drawings or diagrams, images, videos found in Media library or on the Internet, 3D models or other interactive content.



Fully utilize the complex potential of the system

After the teacher has attained an advanced level in the use of MozaBook, has explored all possibilities for illustration and presentation and has also become acquainted with the tools, they can then link different parts of the system together and use them in a variety of combinations. This is how teachers can fully use all functions provided by the software.

Application of the visual and textual content of tools in mozaBook

The images and figures, animations, experimental structures found within tools **can be saved to mozaBook exercise books** and thus can be used for **personalized presentations** as illustrative figures and even as presentation elements operating interactively.

Generating exercises from tools

Some tools allow the possibility to **automatically generate tests** directly into the test editor tool of mozaBook using the tool's own database.

Sharing

Worksheets, lesson plans, personalized presentations and exercise books created by teachers **can be shared at both school and national level through the mozaLearn cloud**. This is how, besides their own ideas, teachers can utilize other teachers' work during their lessons, or they can even issue homework to the pupils through the system.

Animated presentations on more leads

The presentation tool of mozaBook is capable of the making of **multiple, complex, dispersed presentations** too. With it, teachers can compose parallel tests offering more alternatives and presentation models at the same time.



Importing documents and other external files

With the help of mozaBook's import function, certain external files and documents can be converted into mozaBook exercise books.

PDF

The software **reads the PDF document** and converts it into a mozaBook exercise book. It also provides **recommendations regarding the relevant interactive extra content to insert.**

IWB

mozaBook reads the common IWB/CFF format for interactive boards and allows users to open content created on **other interactive boards, without mozaBook.**

PPTX

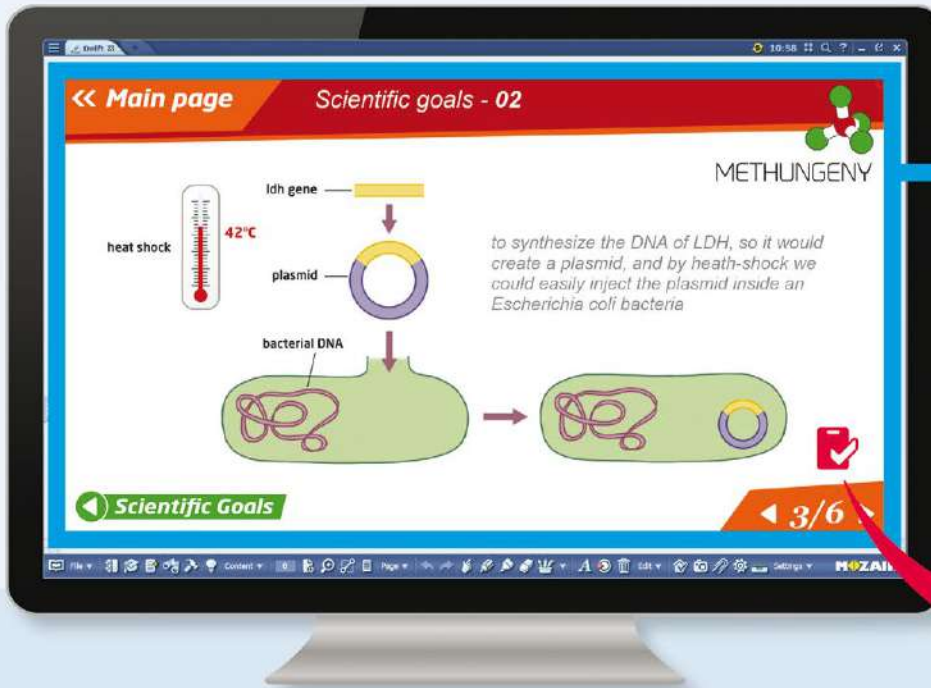
Power Point presentations can also be converted into exercise books. All slides will appear as separate pages, and **the animations used in the presentation will remain playable in the mozaBook exercise book** as well.





Exporting tests and exercise books

All tests and exercise books created in mozaBook can be exported from the software, which enables sharing with others even if they are not mozaBook users.



PDF

The pages of the exercise books can be exported into **PDF format**. You can determine which elements of the exercise book (icons, background, page numbers, etc.) should be exported.

IWB

The exercise books can be exported into the general format of interactive boards (IWB/CFF), so it is possible **to open the exercise books without mozaBook** if the board's software is compatible with this format (Smart, Easytouch, etc.).

JPG

When **exporting pages as an image**, it is also possible to select different items or elements from the page, while the image quality and size can be customized by adjusting the image features and selecting the appropriate .jpg or .png output format.

CSV, GIFT

All inserted **tests can be exported as a separate CSV or GIFT file** that users can store individually and share freely.

Implementation of the system



Once the PDF textbooks are uploaded into the system, the enrichment process can begin. Using the Editor platform is quite simple and intuitive, however, good training can make the job of your editors much easier and more efficient.

- mozaBook Editor training focuses on practical knowledge where experts teach, step-by-step, the knowledge necessary for **enriching publications** and using the mozaBook software on an advanced level.

According to our recommendation, **3-5 specialists who are familiar with IT** attend the training provided by us and afterwards are able to deploy PDF textbooks to the system and create digital textbooks with its help. These textbooks are reviewed and contain extra digital content-related suggestions made by subject-specific content editors. At first, we suggest enriching digital textbooks of natural science subjects.

Mozaik's team can also provide assistance with or complete the preparation of the digital publications, based on a separate agreement.

- Simultaneously, the editorial team (assembled and trained by us), who are familiar with the requirements of **local textbooks**, review the extra content elements in the Media library (more than 1,100 different interactive 3D animations, over 1,000 videos, a vast image bank, and more than 100 thematic applications) and make suggestions to mozaBook

editors which elements should be used and where, to expand the content for digital textbooks.

*This team of professionals allows school systems or publishers to **expand the extra content** in textbooks at any time and to easily publish them, within a short period of time, whenever new publications are launched.*

- We are also aimed at assembling and training a **support team of 3 to 5 people** as well, who are proficient in English, skilled users of information technology and who, after the installation of the mozaBook software in the classrooms, will be capable of answering questions arising in schools and providing software-related assistance.
- **Localisation of tools within mozaBook**, with special regard to country-specific content, begins. Further database expansion is carried out by Mozaik, based on the suggestions of the partner. During development, the specialists of Mozaik update the tools with specific content (images, audio files, historical figures, etc.) provided by the school system or publisher. If required, the textual content is accessible and modifiable on the mozaLearn translation interface.
- Upon request, the **default narration can be exchanged** for a new narration provided by the partner (in accordance with quality and parameter requirements specified by Mozaik). The script of the narration is available in English, which partner may translate and re-record.

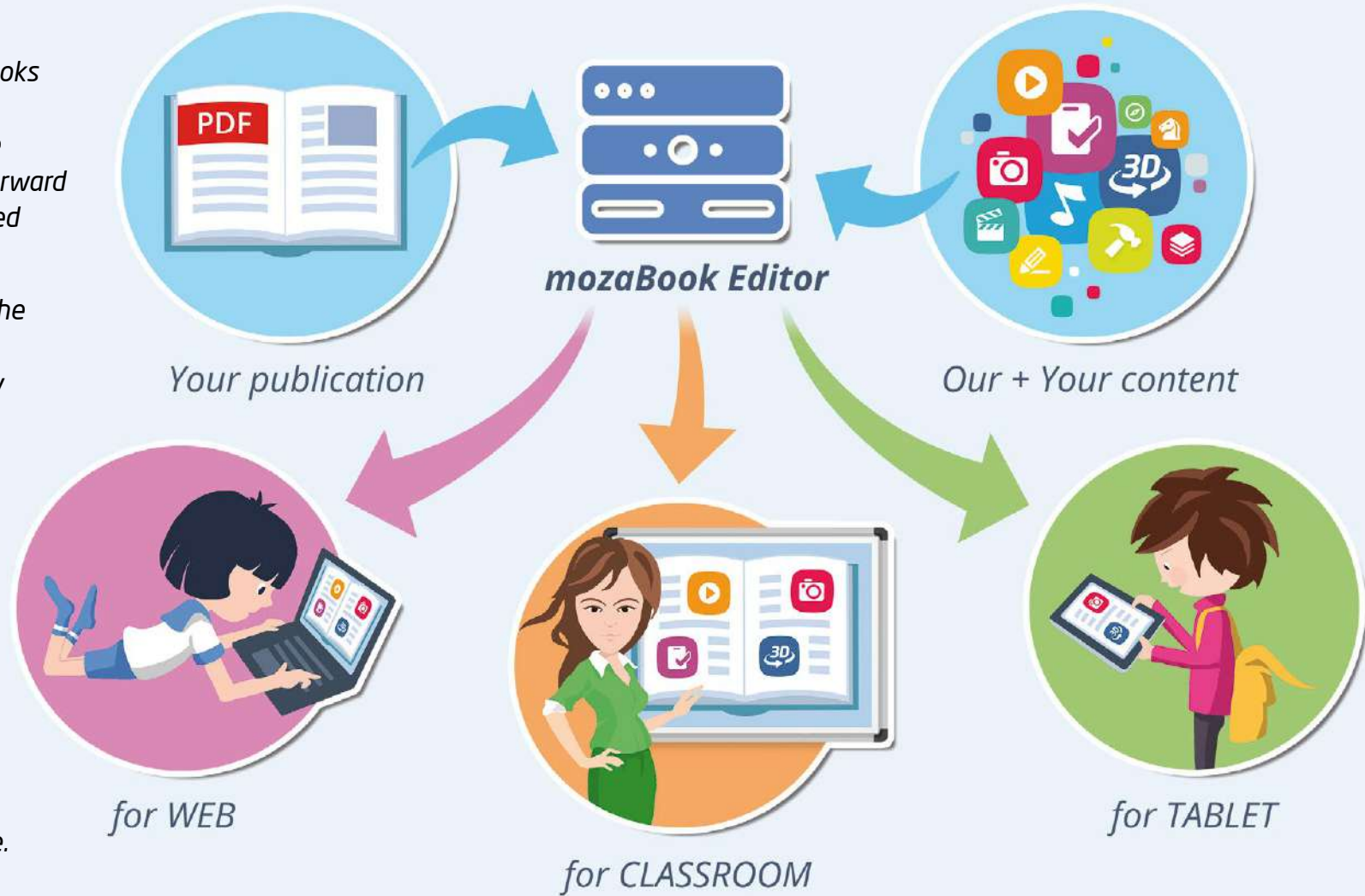


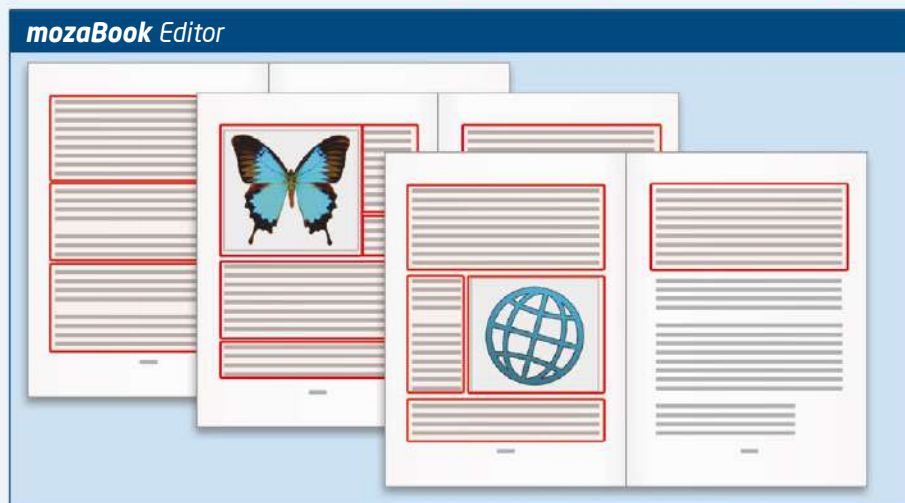
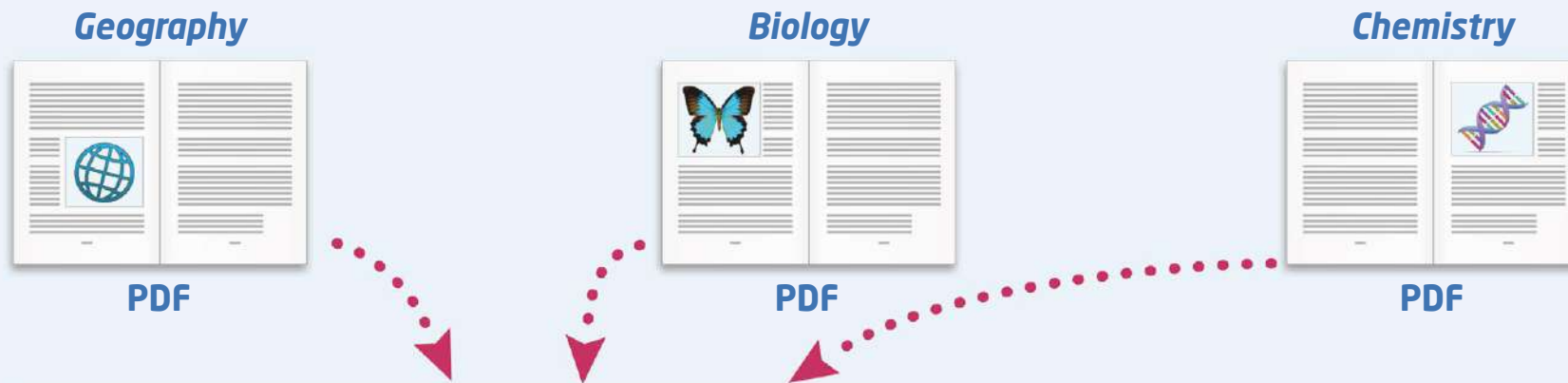
Overview

Existing local printed textbooks can be turned into digital publications with interactive content through a straightforward and effective workflow, called the mozaBook Editor.

Digital books are based on the existing PDF of the local textbooks, which are usually available (as they are used for printing). New digital content assets can be added using Mozaik's Media Library, and new content can be created with built-in tools.

Third-party digital assets can also be added (eg. from previous projects). Deployment for different platforms is clear and simple.





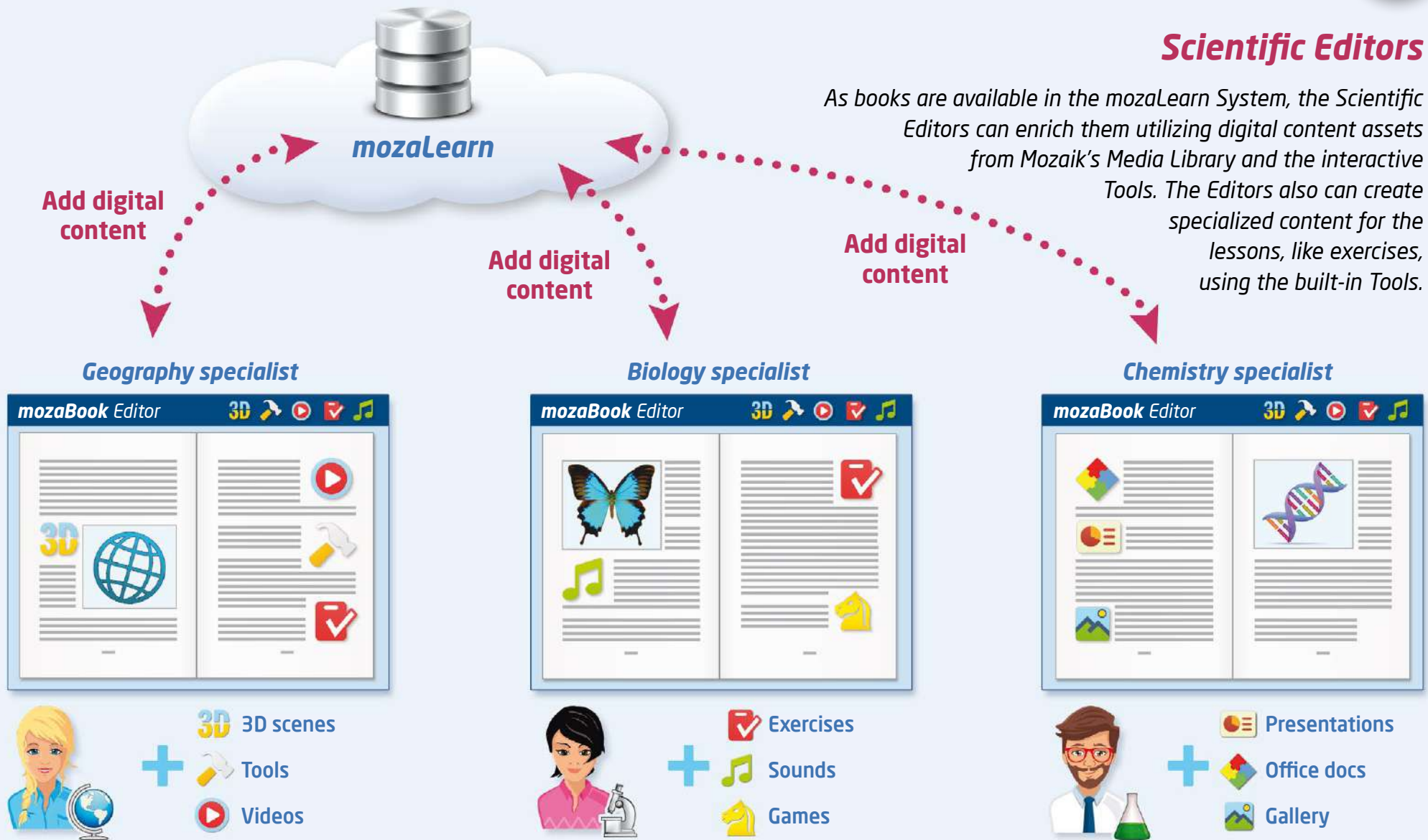
Operators

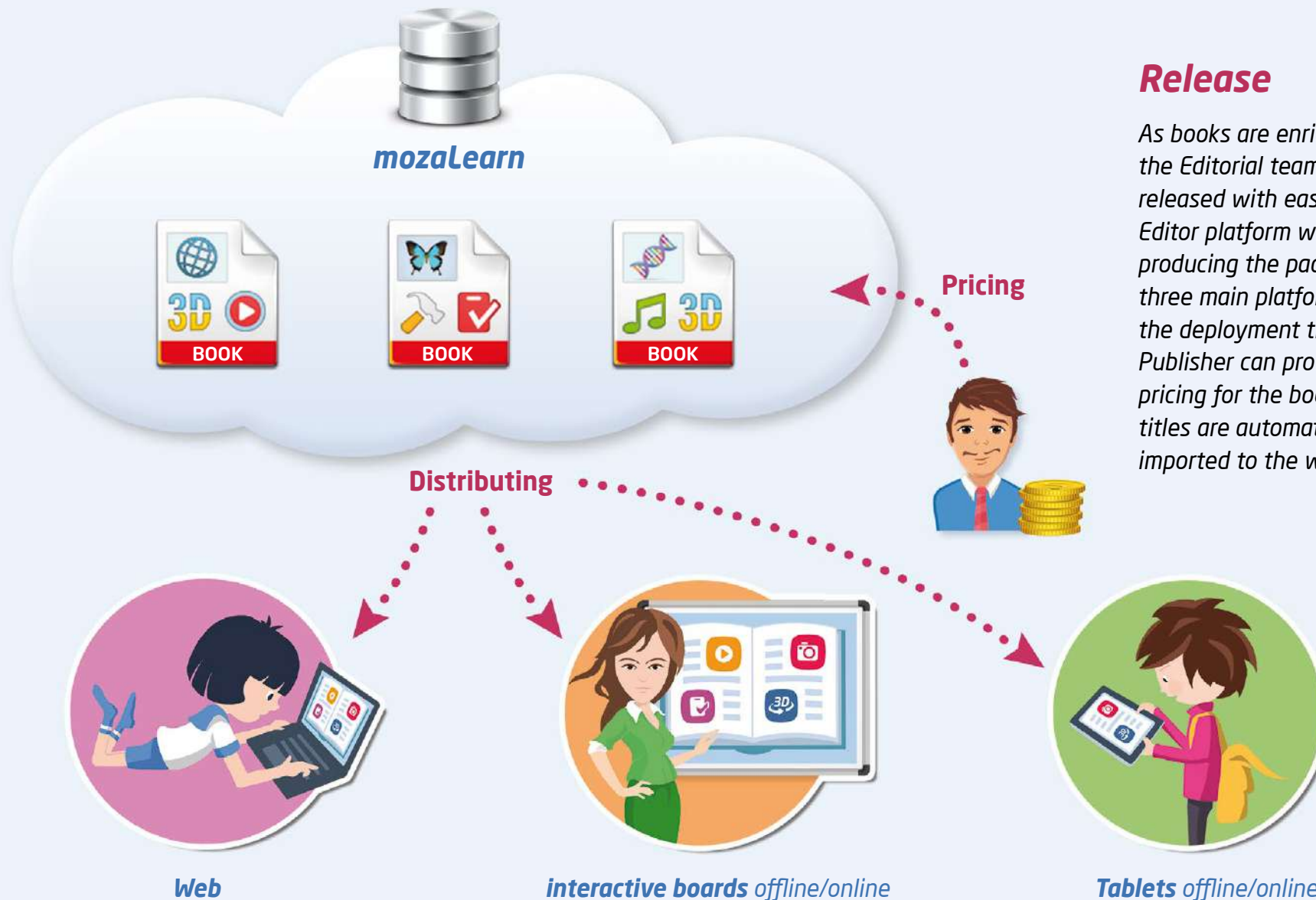
The existing local printed textbooks are uploaded by the operators as a PDF file into mozaBook Editor. As PDF is the defacto standard for printing, it should be available. The metadata, along with the table of contents of the books are filled out by administrators, then the book is ready to be placed in the mozaLearn System.



Upload and prepare







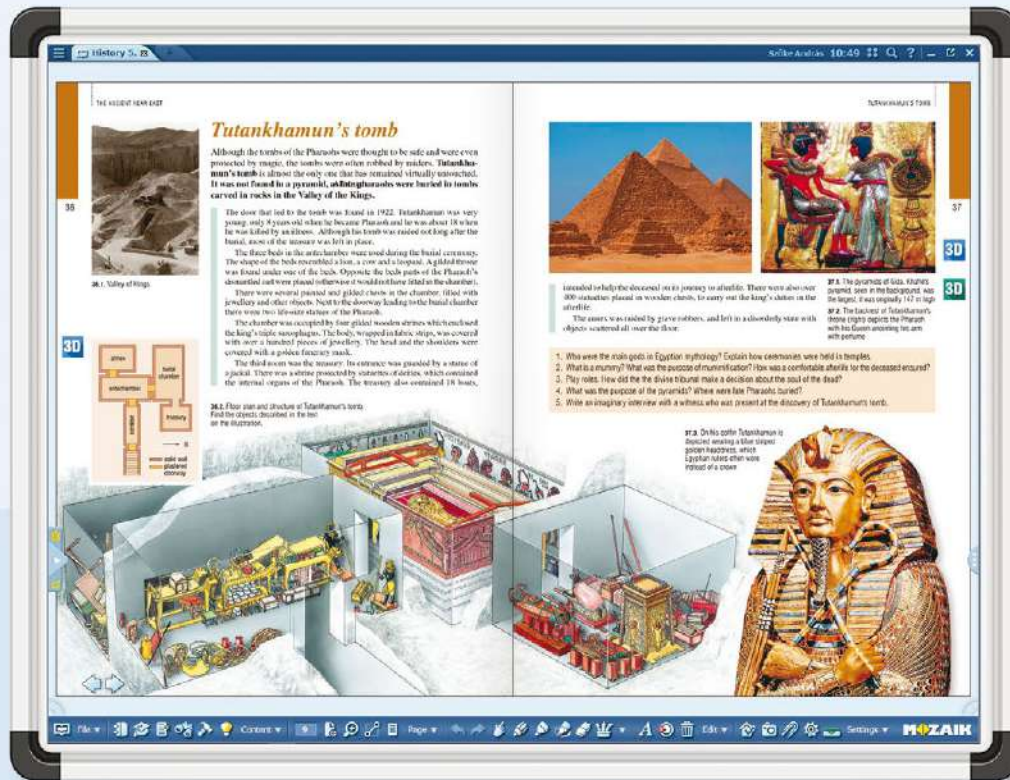
Release

As books are enriched by the Editorial team, they can be released with ease. The mozaBook Editor platform will take care of producing the packages for the three main platforms and organize the deployment through the Cloud. Publisher can provide the licence pricing for the books, after which titles are automatically imported to the webshop.



For interactive boards and tablets

The mozaBook versions of digital books are PDF-based, pageable digital textbooks of which structure entirely corresponds to that of the printed publications. Textual content can be searched and the page sections created in the mozaBook Editor can be enlarged with a single click.

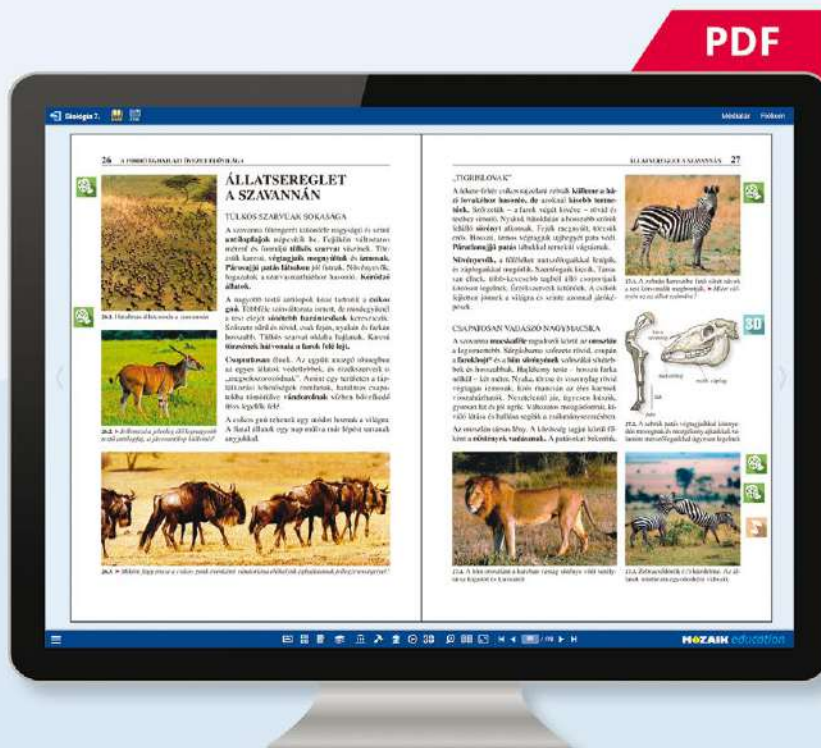


The inserted extra content can be opened by clicking on the small icons on the margin of the pages. Quick navigation within the publications is supported by the interactive table of contents and the page thumbnails.



Online on computers

The publication of the digital books for the mozaWeb platform can either be prepared based on the page setting of the printed books (PDF), or in the HTML version that maintains the responsivity of the web-based content. We can easily switch between the two types of views with a single click.



A nagyobb testű antilopok közé tartozik a csíkos gnú. Többféle színváltozata ismert, de mindgyiknél a test elejét sötétebb harántcsíkok kereszteznek. Szőrzete sűrű és rövid, csak fejen, nyakán és farkán hosszabb. Tülsős szarvai oldalra hajlanak. Karcsvi torzsinék hátvonalát a farkok fele lejt.



Hatalmas állatcsorda a szavannán

Csoportosan élnek. Az együtt mozgó tömegben az egyes állatok védettebbek, és érzékszerveik is „megsokszorozódnak”. Amint egy területen a táplálékielvonási lehetőségek romla naak, hatalmas csapatokba tömörülve vándorolnak vízben bővelkedő friss legelők felé.



A csíkos gnú telének egy utódot hoznak a világra. A fiatal állatok egy nap múlva már lépést tartanak anyjukkal.

HTML



Jellemezd a jelenleg élő legnagyobb testű antilopfaj, a jávorantilop küllemét!



Miként függ össze a csíkos gnúk évenkénti vándorlása élőhelyük éghajlatának jellegzetességével?

„TIGRISLOVAK”

A fekete-fehér csíkos rajzolatú zebrák külleme a házi lovakéhoz hasonló, de azoknál kisebbek. Szőrzetük – a farkok végét kivéve – rövid és testhez simuló. Nyakuk hátoldalán a hosszabb szőrök felálló sörényt alkotnak. Fejuk megnyúlt, torzsuk erős. Hosszú, izmos végtagjuk ujhegyét pata védi. Páratlanujjú patás lábakkal remekül vágóznak.



Növényevők, a fűféléket metszőfogakkal letépi, és zőptogaikkal megőrlik. Szemfogaik kicsik. Társasan élnek, több-kevesebb tagból álló csoportjaik közösen legelnek. Érzékszerveik különök. A csíkok felettlen jönnek a világra.

The inserted extra content can be opened by clicking on the small icons on the margin of the pages in both cases.

Quick navigation within the publications is supported by an interactive table of contents.

Training

For successful implementation of the system, it is necessary to train professionals of different levels of expertise in the use of the mozaLearn system.

Participants, selected by the partner, begin **mozaBook instructor training sessions**, namely, the instruction of trainers in suggested groups of 15-20. We recommend attending instruction at Mozaik Education's Training Center in Hungary with at least one group, where participants will also get a chance to **visit schools** that are already using mozaBook.

We recommend involving those teachers in the training who are familiar with computer use, are innovative, motivated, are proficient in English and will later be able to **train other colleagues in the effective classroom use of mozaBook**. In addition, we suggest the participation of professionals dealing with teacher training at universities and colleges since they may be competent in the coaching of teachers.

After the practice period, Mozaik's trainers can provide training on site to deepen knowledge in order to become a Diamond-level instructor and assemble the support team. During this training programme, we help trainers to reach an even higher level of proficiency in mozaBook and to be able to teach the use of the new system at a national level.

This local training session ends with an evaluation and after its successful completion, **participants will receive certification** and are qualified to teach their colleagues at schools.



- Certified mozaBook instructor teachers start providing Starter mozaBook training to schools nationwide. We suggest training the most highly motivated 20% of teachers in every school and let the new knowledge and culture spread out smoothly.
- After the Starter training, the teachers will be able to start using mozaBook in class. They can extend their knowledge with the **built-in video and written tutorials** and reach the advanced level by themselves. The school system or publisher can organize basic training for the most highly motivated teachers regionally.

As an option, Mozaik can organize and provide Starter and Basic training sessions in local schools as well, based on a separate agreement.



The usage of mozaBook is very intuitive, however, good training can enhance the performance and self-confidence of teachers. Mozaik's experts will train a local instructor and support team how to teach using mozaBook efficiently and implement this new digital culture in classrooms.



Teacher training is a very important part of implementation. It has to be carried out smoothly and every care has to be taken to ensure that the new digital solution is provided for teachers to support their work.

Local Support Team Diamond Level Instructors



The instruction of trainers takes place in groups (15-20 persons per each group) in the form of two 60-hour practice-oriented courses, coupled together with technical analysis.

Master Trainers Gold Level Instructors



Teachers who will actually visit the local schools take part in two 30-hour courses locally. After its completion they become certified mozaBook instructors.

Local Teachers Starter



Local teachers receive starter (5h) training and get to know the basics of mozaBook.



Participants in our training events are awarded certificates (Attendance, Silver, Gold and Diamond) upon successful completion of each level. Various certificates entitle the participants to hold specific training sessions and enrol in higher-level training.

Certificates



ATTENDANCE



SILVER



GOLD



DIAMOND

Hours of training	15	30	60	120
Name of training attended	BASIC	ESSENTIAL	ADVANCED	INSTRUCTOR
Min. number of presentations / training held	-	-	5	10
Sales presentation	✓	✓	✓	✓
Entitled to provide	-	Starter training (5h)	Essential training (30h)	Advanced Training (60h)
Entitled to issue certificate level	-	Attendance certificate	Attendance/Silver certificate	Attendance/Silver/Gold certificate



Acquiring the use of mozaBook on one's own merits

A number of tools are available for users to acquire mozaBook use. With tutorial videos, a built-in "Help" function and instructions for use, the handling of tools can be easily acquired through self-teaching.

01. Tutorial videos for initial steps

Attached to the software, two tutorial videos provide help to beginner users:



How to deploy mozaBook?

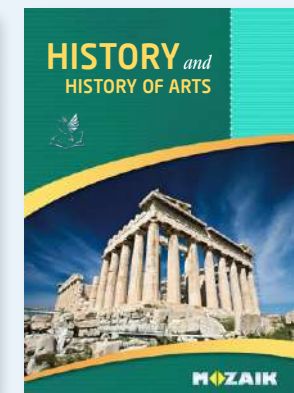
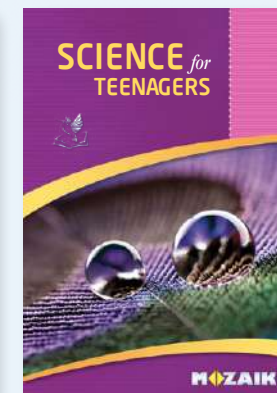
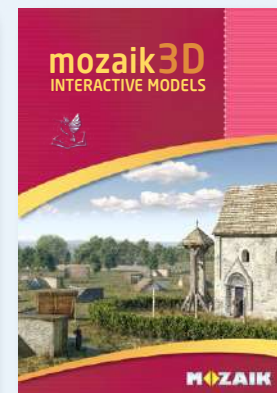
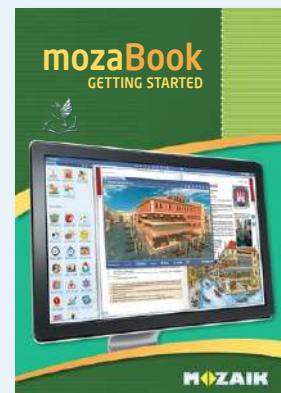
Presents the steps and options of how to install, create a user, choose a publication and customize settings.



Basic use of mozaBook

Demonstrates how to use the basic functions of the software, specifies the available possibilities and represents their management.

02. Instructions for use and sample textbooks in mozaBook



There are 80 tutorial videos in the digital textbooks representing the functions of the software that effectively complement the explanatory texts and figures of textbooks.

These show the operation of all the essential tools and every important function of mozaBook.

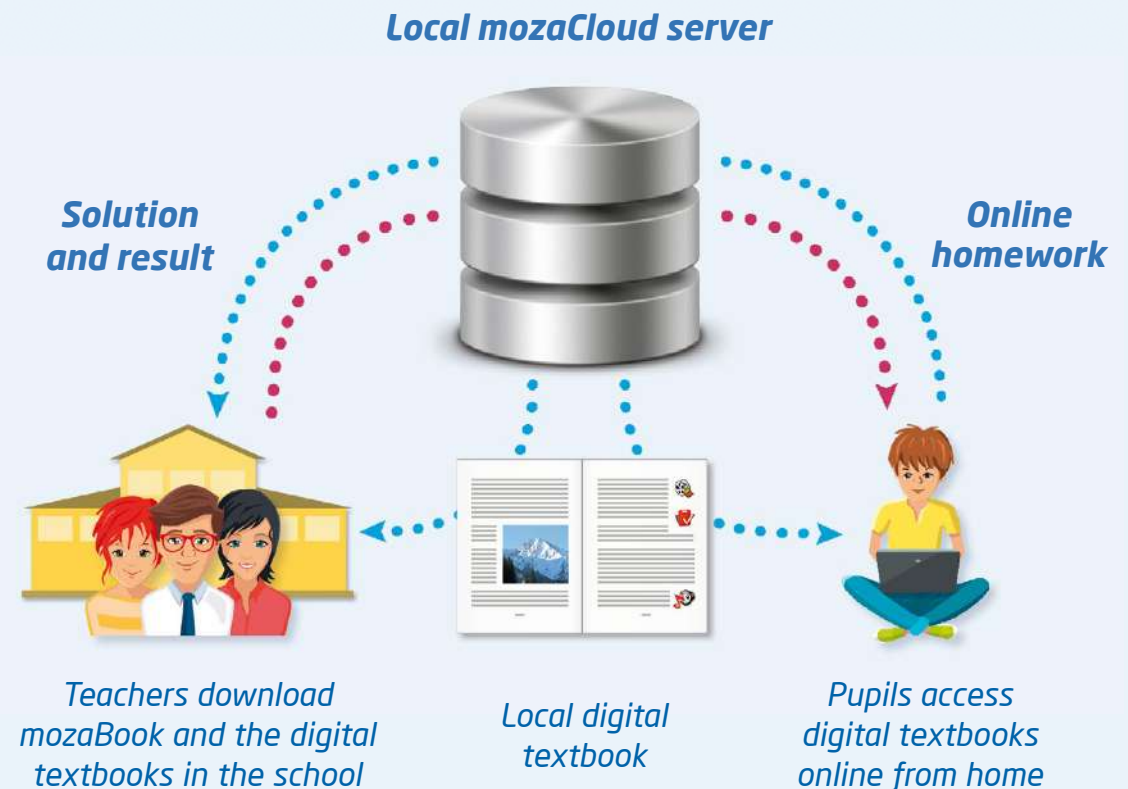
We placed **extra content of every type** into the sample textbooks which teachers may see in digital textbooks. These can be inserted into their textbooks and exercise books by themselves. The use of sample textbooks makes handling extra content possible.



Installation and usage

- After the purchase of the dedicated server by the operator as per our instructions, we will start to **install the** in-country **mozaCloud server**.
- After a successful testing period of the server and reaching a significant number of the uploaded textbooks, the **mozaLearn system will be launched nationwide** and available for every teacher to use mozaBook with the local textbooks for in-class teaching and for every student to access the digital textbooks through mozaWeb online.
- Schools download the mozaBook software application and the desired textbook from the national mozaCloud server. The **mozaBook software and the textbooks**, along with the extra content, **operate offline as well**. This way not even a poorer Internet connection is an obstacle to the accomplishment of an illustrative digital lesson.
- Teachers install the mozaBook software on their own laptops and download the necessary textbooks to be used. They can complete their textbooks in mozaBook, **prepare their own content**, lesson plans and **presentations** in advance which **can be shared with their colleagues** and pupils both offline and online through the mozaLearn cloud.

- Each and every **pupil has access to the** individually used **textbooks** on the mozaWeb portal.
- Development does not stop. Mozaik Education continually develops the mozaLearn system, its elements and content database. Pupils and teachers **access the most recent** mozaBook software **version** at the beginning of every school year.





About mozaLearn blog website

A daily updated blog - in other words, education methodological portal -, edited by experienced professionals, is linked to the mozaLearn system.

The **mozaLearn blog** provides new ideas and advices for innovative teachers who use the system. With its successful functioning, the blog can become a forum that allows for the establishment of the **mozaLearn teacher's community** in which teachers are not only the users of the system but while tailoring, enriching it to their needs and bringing life into it, they also become the developers of the system.

The blog offers a variety of assistance to anyone being interested in:

- **At least one blog post a day**

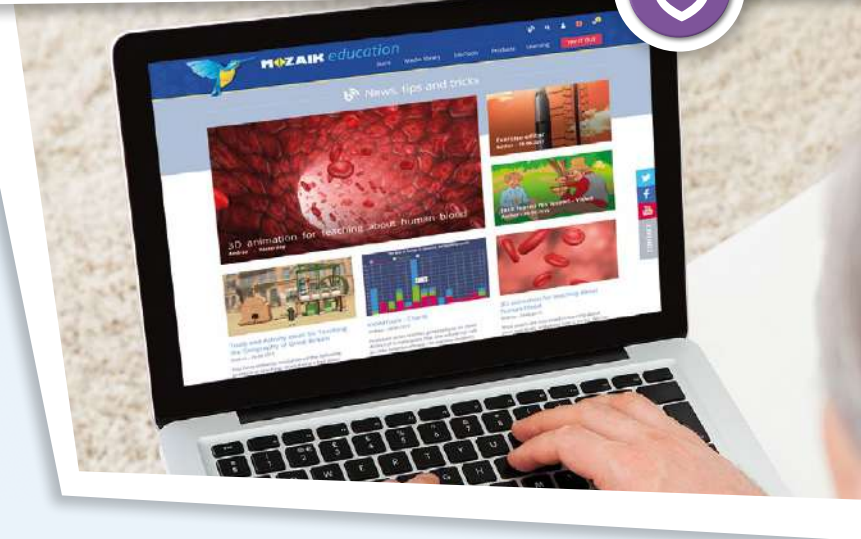
It presents ideas and applications usefully applicable during the lessons helping users to be able to use ICT tools more successfully and effectively in their everyday teaching practices.

- **Two articles a week**

These can be, for instance, teaching aids, lesson plans, methodological presentations based upon digital mozaLearn teaching materials helping their use and making statement on their effectiveness and successes in classroom application.

- **One instructional video a week**

A methodological video representing the use of the tools and of digital education materials within the mozaLearn system in classroom environment.



- **Publishing opportunities** for teachers and teacher candidates where they can disclose in scripts, studies, process their survey results about individual teaching practices.
- **Discussion forum** where teachers can discuss their thoughts with their colleagues.
- **Virtual trainings** where teachers can improve their digital competences and reach higher and higher levels in the use of the mozaLearn system.
- Starting an **idea contest** for motivated and talented teachers where they reevaluate themselves with their personally developed digital materials before the user community.
- **Teacher of the month** award with which the winner gains reputation and motivation from the so-formed community of professionals.



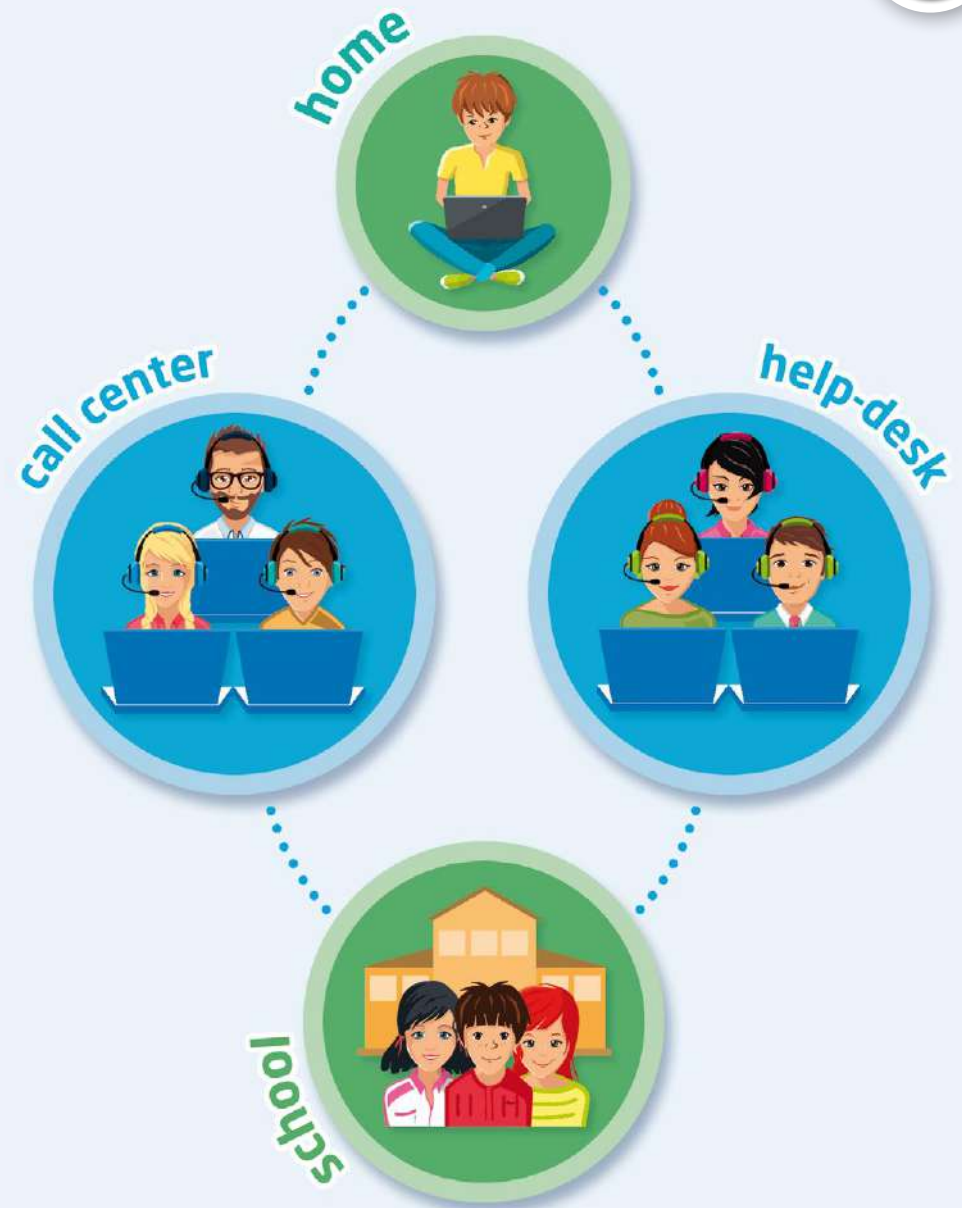
Local support

Setting up a **local support team** of 3 to 5 people who are skilled users of information technology and who, after the installation and a training session provided by Mozaik, **will be capable of answering questions arising in schools** and providing software-related assistance.

Assembly and coordination of this team can either be managed by Mozaik or our partner company.

Following the installation of the system, this team of IT professionals will be able to carry out the following tasks:

- provide an on-line mozaLearn help-desk and call center,
- deliver solutions for the problems arising in local schools,
- respond to teachers' and students' questions,
- give remote assistance for schools to install mozaBook on local computers,
- give assistance in organizing of local training,
- daily maintenance of the system nationwide.



Licences

- *In the Classroom*
- *At Home*
- *For Publishers*



What do I need in my classroom?

To use mozaBook on an interactive board or projector, **all you need is a mozaBook CLASSROOM licence.**

This licence allows you access to the entire Media Library, plus you can create interactive exercise books (presentations), or share teaching materials through the cloud with fellow teachers or your students. If your students use tablets in class, you can use the **classroom management feature** to send them exercises, videos, images, or other learning objects.

mozaBook CLASSROOM licence

What do my students need for their tablets?

We recommend using Windows tablets with the mozaBook STUDENT licence, for the highest level of technical capabilities and optimal user experience. We also have native apps for Android and iOS available for free on the App Store and Google Play.

If you would like to send homework online or let your students browse the Media Library or review your exercise books created by you, the mozaBook STUDENT licences should be supplemented with **mozaWeb Premium account**. With mozaWeb Premium, students can complete homework on mozaWeb.com as well.



How can teachers use mozaBook at home?

Teachers can use mozaBook on their home computer in order to **prepare lessons**. The CLASSROOM licence can be used on an additional 2 computers outside of the classroom, or teachers can purchase an additional mozaBook PERSONAL licence. With the PERSONAL licence, teachers can still send homework and have access to all the same features that they use on their interactive board in class.

How can students solve homework and learn independently at home?

Students or parents can purchase a mozaWeb Premium account, and students can **log in to mozaWeb.com from any desktop browser** to access and work on homework assignments or view exercise books sent by teachers.

mozaWeb PREMIUM account

Students can also use their free time to explore the Media Library to review subjects taught in class or learn more about their favorite topics. Students can watch educational videos, practice using games, set up their own virtual labs or learn something new using Mozaik's 3D models.

If students use their tablet at home they can log in with the same mozaWeb account on Windows, iOS or Android tablets. Any digital textbooks purchased can be opened in all platforms.





How textbooks can be in the system?

Any publisher can upload **the PDF versions of their own printed textbooks** into the mozaBook Editor, and **convert them instantly into an interactive digital textbook**. The system allows for entirely separated, individual availability for every publisher so that each and **every one of them has access to their own publications**.

mozaBook Editor licence

How to create interactive textbooks?

The first step is that publishers upload the electronic version of the printed textbooks used by teachers and pupils to the **mozaBook Editor** online digital textbook editing software, and then insert extra content from **Media library**, a collection of interactive educational content including over one thousand 3D models, several hundred video and audio files, images, assessment exercises and other supplementary material made by Mozaik Education.

Along with Media library, the mozaBook Editor gives publishers the possibility to insert any of their own digital content or educational material from the Internet too. The mozaBook Editor can create various textbook packages from existing digital books, depending on what need the publisher wants to fulfil: for classroom use on an **interactive board**, for online **home learning**, or for **Windows, iOS and Android** tablets.

Printed and Digital

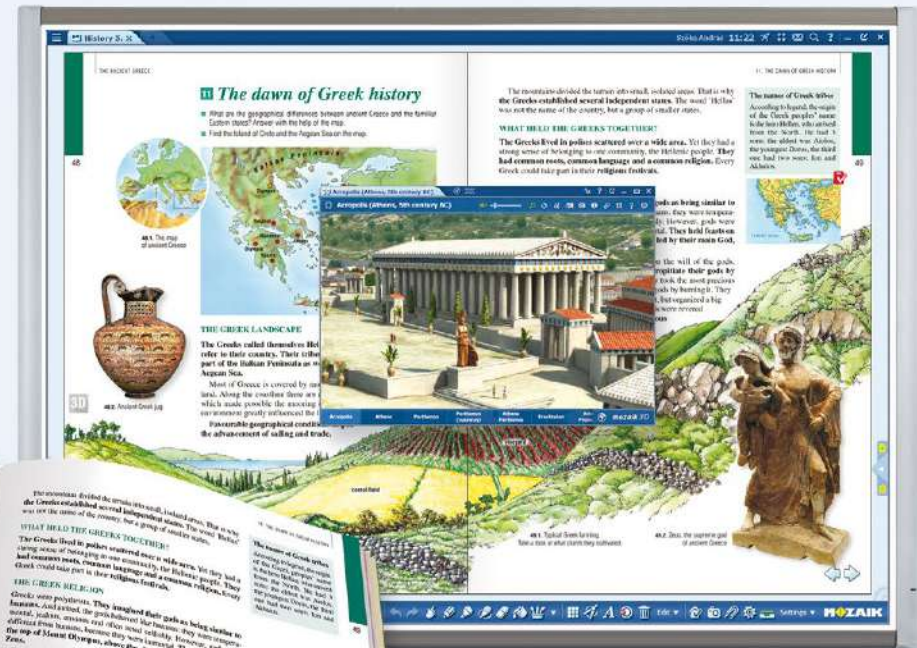
- *Textbook development*
- *Atlas development*
- *Interactive 3D Smartbooks*



Textbook development based upon local requirements

Mozaik Education has almost **25 years of experience in textbook publishing**. During this time we have made 400 accredited textbooks and workbooks of which millions of copies are published yearly in Hungary.

Several awards, the popularity among teachers and pupils but **mostly the academic and professional successes of students using our textbooks** prove the professional modernity of these publications.

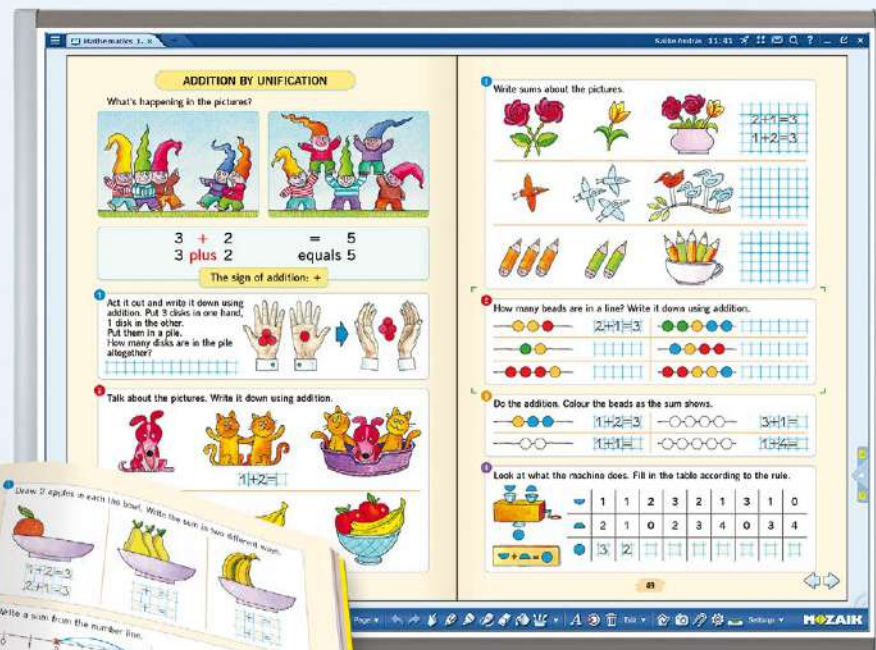


The illustrations of our textbooks, the huge diversity of information (text, figure, graph, chart, image, photo) and other curiosities help facilitate the most effective and easiest acquisition of knowledge possible.



Based on these achievements **we offer our experience and expertise** for the further development and upgrading of printed local textbooks.

The success of the teaching-learning process depends on the effectiveness of elaborating upon the given information.



The basis of success is the layout and structure of the curriculum:

- *logically constructed text*
- *an abundance of illustrations*
- *coherency of text and images strengthening each other*
- *system of self-checking, questions, exercises and other pupil activities*
- *other digital tools aiding comprehension (mozaBook)*

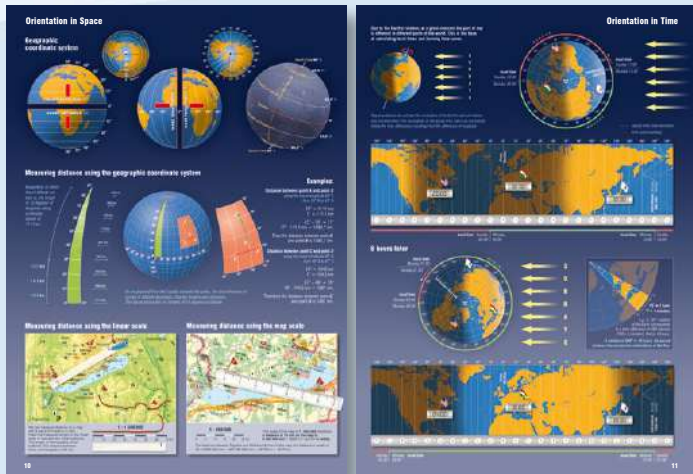
Due to the transparency, clear divisions and familiar structure guiding pupils through crucial knowledge, **our books aid the acquisition of individual learning elements.**



Development of school atlases

The cartographic department of Mozaik Education deals specifically with the development of **educational geographical and historical atlases**. Mozaik Education is the market leader in Hungary with its educational atlases and is unique with its atlas-based mozaMap interactive whiteboard software application worldwide.

As part of further cooperation we willingly **offer the development of atlases corresponding to the requirements of local education** and the preparation of the related interactive mozaMap atlases.



- Atlases help the development of realistic projections with drawings, aesthetic figures and photos.
- Graphics make individual understanding possible and the explanatory figures help in revealing more complex relationships.
- Visualization tools and printed tableaux can be made based on the atlases.

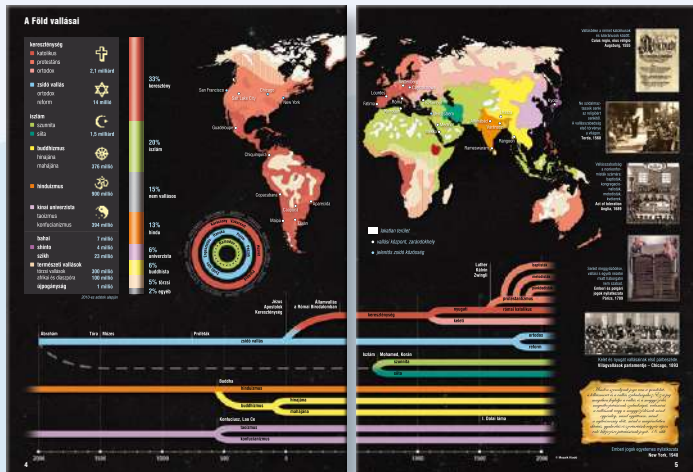


History atlases

Our atlases from elementary to high school guide students from the formation of the Earth to the present day, with maps covering the entire course material. We were led by three aspects when designing the atlases: **historical accuracy, clarity and communication of information.**

We develop every atlas to make it applicable in the mozaMap software in a digital format.

As a result of common cooperation, history atlases can also be made based upon the requirements of local education.



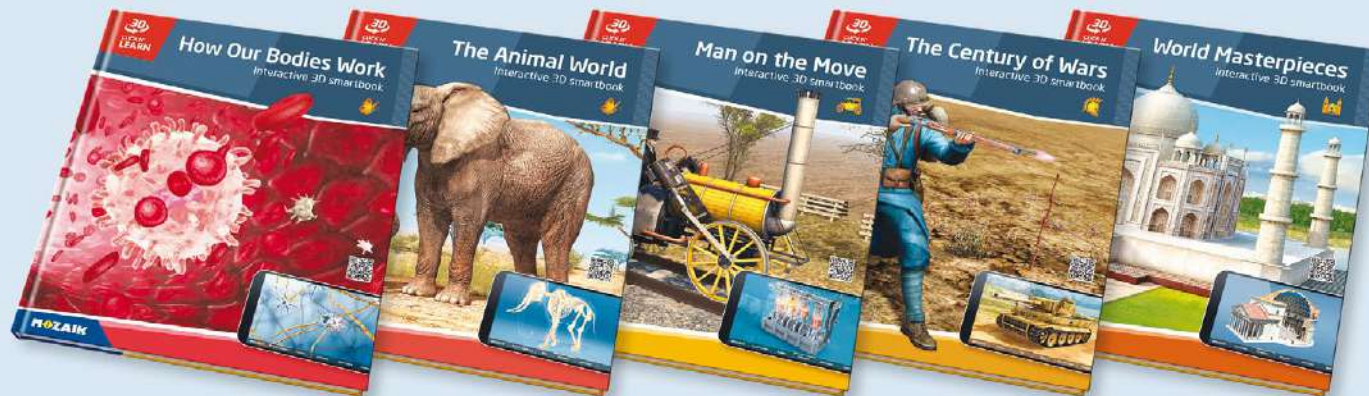
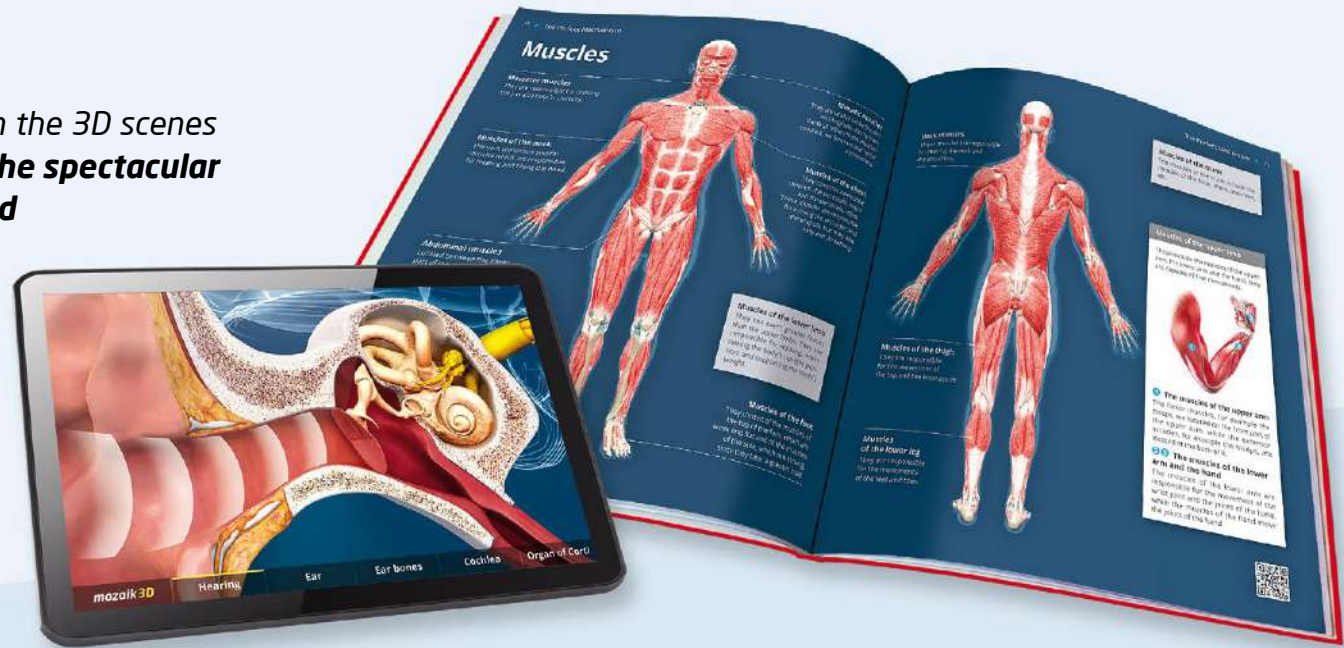
- The atlases are full of images, thus students can learn about historical events and art history at the same time.
- Children can learn perception processing skills and acquire long-lasting knowledge visually.



3D virtual books

The series consisting of 20 books is based on the 3D scenes available on mozaWeb. The books **combine the spectacular images in animations with well formulated and easily understandable texts.**

The books are **available in several languages** and cover various school subjects. They can be used in class, for preparing at home and for developing one's knowledge in a playful way.



Using the books in the series, immerse yourself in the worlds of natural sciences, technology, history and archeology.

The publications are unique as they **combine the benefits of both printed books and of virtual reality** so that readers may acquire modern knowledge.



Beside the spectacular images, you can find

- introductory texts, which help to connect new information to previously acquired knowledge
- brief, easily understandable explanations added to illustrations
- interesting facts that help in acquiring further knowledge

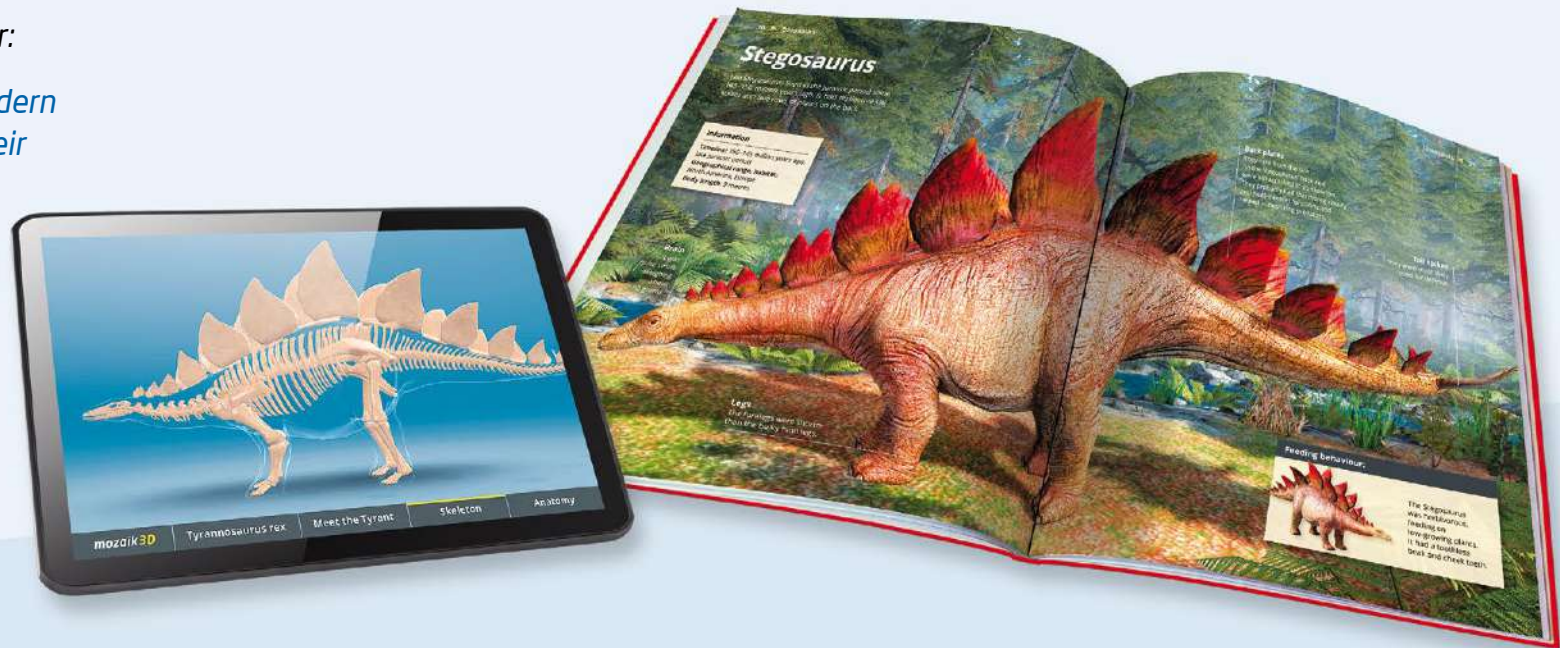


Using the QR codes on the pages, you can even **open the 3D scenes** on tablets or mobile phones running mozaBook.



The series is recommended for:

- schools that want to add modern and high-quality books to their libraries or to offer them as gifts to students
- teachers who want to motivate their pupils and need ideas regarding how they can use digital tools in class



- teachers who seek high-quality books for extracurricular activities
- children who like to read and are also interested in digital animations
- parents who do not only want their children to spend their time a useful way, but also to enjoy the spectacular resources and to learn by playing

Content list





for Teachers

for classroom use

for interactive boards

mozaBook

Interactive board software suite for in-class teaching

Features

- Access to the interactive textbooks
- Opening and page turning of digital textbooks
- Clear enlargement of publication page segments
- Playing of interactive content in publications
- Running of mozaTools subject related applications
- Digital exercise books, creation of presentations
- Creation of own content
- Insertion of notes, saving of alignments
- Animated presentation maker
- Simplified and professional illustrational tools
- Intelligent drawing tool, relationship diagram
- Built-in plane, spatial and three dimensional figures, image gallery
- Advanced presentation options
- Built-in video and audio recorder and player
- Built-in 3D player
- Built-in flash player
- Built-in browser
- Video help in English
- Offline/online usage
- Synchronization of publications
- Sharing content at school and national level
- Setting homework

Currently available languages

Arabic, Belarusian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovakian, Slovenian, Spanish, Swedish, Turkish, Ukrainian

Support

Mozaik Education issues a software update yearly before the start of the school year fixing the latest bugs, optimizing operation and extending the software with further functions.



mozaWeb

Online desktop browser based application for home learning

Features

- Access to the interactive textbooks
- Opening and page turning of digital textbooks
- Clear enlargement of publication page segments
- Playing of interactive content in publications
- Running of mozaTools applications
- Built-in video and audio player
- Built-in 3D player
- Personal account and storage for teachers and pupils
- Searching and playing of Media library content
- Homework function

Currently available languages

Arabic, Bulgarian, Chinese, Croatian, Czech, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovakian, Slovenian, Spanish, Swedish, Turkish, Ukrainian

Support

Mozaik Education continually maintains the mozaWeb site, fixes possible bugs within the shortest period of time possible and optimizes operation.

for Students

for learning at home

online on the Web



for Students

for home and classroom

native app

mozaBook for tablet *Educational application for mobile devices*

Features

- Access to the interactive textbooks
- Access to the digital exercise books
- Opening and page turning of digital textbooks
- Opening and page turning of digital exercise books
- Playing of interactive content in publications
- Simplified and professional illustrational tools
- Interactive table of content
- Text search function
- Built-in video and audio player
- Built-in 3D player
- Offline/online usage
- Synchronization of publications
- Homework function

Currently available languages

Arabic, Belarusian, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovakian, Slovenian, Spanish, Swedish, Turkish, Ukrainian

Support

Mozaik Education fixing the latest bugs, optimizing operation and extending the application with further functions.



Intellisense Collection from Mozaik *Educational applications for tablet and smartphone*

- **LabCamera** is a webcam-based natural science, exploration and data logging software that allows students and teachers to carry out scientific observations and measurements by using a computer.
- **Fizika** is an educational application that represents mechanical processes with which you can make models with a few clicks and play it on your device as many times as you wish.
- **Matek** is an educational application that helps you solve the most complex equations and understand how to get the right result. Snap a picture of the equation or draw it on the display, and the program will guide you through the solution step by step.
- **Cut'N Learn** is an app with which you can make animations using the stop-motion technique. All the frames making up a motion image form a separate setting which need to be placed on each image. The program cuts the resulting still images and assembles them to form motion images.

for Students

for home and classroom

native apps

LabCamera available language: Arabic, Chinese, Czech, Danish, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovenian, Spanish, Swedish, Turkish (all other apps in English)

Support

Mozaik Education fixing the latest bugs, optimizing operation and extending the apps with further functions.



for Publishers

for authoring books

online workflow

mozaBook Editor

Online digital textbook authoring application

Features

- *PDF file (textbook) input*
- *Editing of page highlights and enlargements*
- *Insertion of interactive content into the publication*
- *Creation of interactive table of contents*
- *Making of digital textbook packages for mozaBook, mozaWeb*
- *Delegation of tasks for editors*
- *Statistics related to editing*
- *Administration of digital textbook packages*
- *Managing of digital textbooks packages*
- *Status report of digital textbook packages*

Currently available languages

Arabic, Bulgarian, Chinese, Croatian, Czech, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovakian, Slovenian, Spanish, Swedish, Turkish, Ukrainian

Support

Mozaik Education continually maintains the mozaBook Editor site, fixes possible bugs within the shortest period of time possible and optimizes operation.



mozaLearn Localisation

Online translation and localisation tool for the mozaLearn system

Features

Upon further localisational requirements, translation of the mozaBook and mozaWeb software interface and linguistic elements, and correction of wrong translations can be made within mozaLearn Localisation.

- mozaBook: menu system and interface
- mozaWeb: menu system and interface
- mozaTools: databases
- 3D models: menu system and the labels of certain models

Possible languages

During the translation any of the already translated languages can be used as a source.

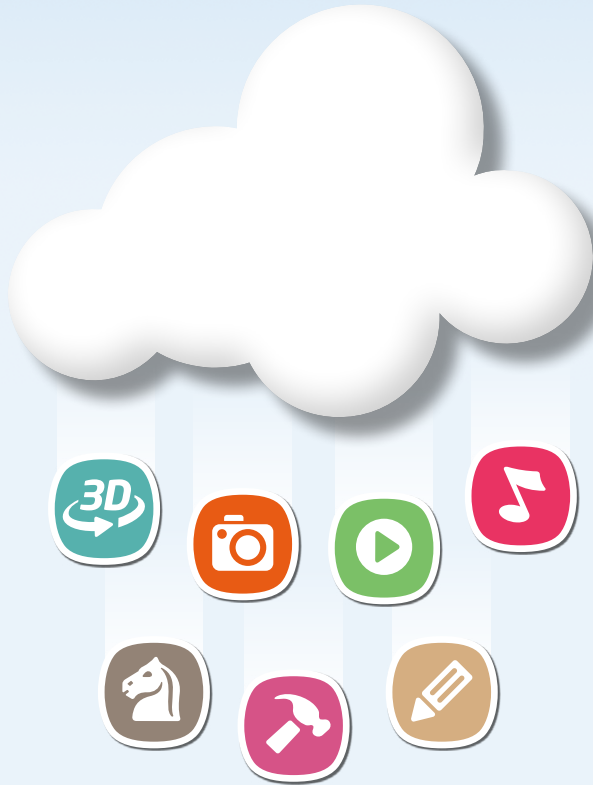
Support

Mozaik Education continually maintains the mozaLearn Localisation site, fixes possible bugs within the shortest period of time possible and optimizes operation.

for Translators

for content localisation

online workflow



Media library

K-12 interactive educational content for virtually all the subjects

Content types

- Interactive three-dimensional models
- Educational videos
- Collection of educational images
- Music pieces
- Interactive exercises
- Thematic tools
- Games

Mozaik Education and its partners continually develop new educational content which is why **Media library content is actively growing, day by day.** Currently available content can be studied on our website, www.mozaweb.com

Types of use

- insertion into mozaBook digital textbooks **offline** (interactive board)
- the entire Media library content available in the mozaBook media library **online** (interactive board)
- insertion into mozaWeb digital textbooks **online** (web browser)
- the entire Media library content available in the mozaWeb media library **online** (web browser)

Language support

The content of Media library is available both in more than twenty languages. Most interactive content is at disposal in a wide range of languages.



for Teachers

for classroom use

for interactive boards

mozaMap *Digital maps for interactive board*

The software exhibits the atlases developed by Mozaik Education on an interactive whiteboard along with a number of interactive possibilities.

Features

- *Navigation on the Map (zoom, pan)*
- *Layers, Combined Maps*
- *Save View, Window and Map*
- *Search on Map*
- *Drawing Tools, Presentation, User-Created Content*
- *Animation (dynamic change)*
- *Lessons and Questions*
- *Integration with mozaBook*
- *Customization*

Currently available languages

Arabic, Chinese, English, German, Hungarian, Portuguese, Russian, Spanish

Support

Mozaik Education releases an update to the software every year. These updates relate to fixing bugs, optimizing the operation of the software and introducing new features.



mozaLog Digital gradebook

Features

- Progress book
- Attendance book
- Assessment book
- Possibility to create student groups
- Possibility to create sub-groups
- Import or export student data
- Timetable editor function
- Managing teachers' substitutions
- Academic statistics
- Absence statistics
- School statistics
- Written report function
- Messages for parents
- Print function for gradebooks, progress registers, reports, certificates, overtime statements and all statistics

Currently available languages

English, Hungarian, Ukrainian

Support

A single customization is required to match local regulations of school work and to translate the interface to local language. The suggested minimal headcount is 100.000 students.

Mozaik Education continually maintains mozaLog, fixes possible bugs within the shortest period of time possible and optimizes operation.



for Schools

for administration

online on the Web



mozaBook

- Desktop PC or Notebook computer
- OS: Microsoft Windows 7 or newer
- 400 MB free disc space for online and 2 GB for offline usage without books (digital book packages require with online extras further 20-80 MB; with offline extras 1-2 GB per book)
- RAM: 2GB
- CPU: Intel Pentium D or newer, AMD Athlon or newer
- GPU: graphics card for 3D, 512 MB
- Display resolution: min. 1024x768

mozaBook Editor, mozaLearn Localisation

- Desktop PC or Notebook computer
- OS: Microsoft Windows 7 or later
Mac OSX, Linux
- Desktop web-browser (Chrome, Firefox, Safari, Edge)
- CPU: Intel Pentium D or newer, AMD Athlon or newer
- GPU: graphics card for 3D, 256 MB
- Display resolution: min. 1366x768

mozaWeb

- Desktop PC or Notebook computer
- OS: Microsoft Windows 7 or newer; Mac OSX, Linux
- Desktop web-browser (Chrome, Firefox, Safari, Edge, IE9 or newer)
- CPU: Intel Pentium D or newer, AMD Athlon or newer
- GPU: graphics card for 3D, 512 MB
- Display resolution: min. 1024x768

mozaBook for Tablet

- Android mobile devices with Android 5.1 or later (2GB RAM or more recommended)
- Apple mobile devices with iOS 9.3 or later
- HD display resolution recommended
- 40-50 MB free disc space without books (digital book packages require with online extras further 20-80 MB; with offline extras 1-2 GB per book)



mozaCloud Server

Users are served from central mozaCloud servers. As an option, servers can be deployed to the country of usage in order to provide faster access through domestic connections. The number of servers can be adjusted gradually to match the demand as the number of concurrent users grows. By using a local server, the user data remains inside the country of usage. This way, local data protection regulations can also be met.

One mozaCloud server (as specified below) can serve up to 10,000 interactive displays and 100,000 mozaWeb student users.

Maintaining a local mozaCloud server incurs additional costs on hardware and software maintenance as well, but it ensures faster domestic access while local data protection laws can be abided.

mozaCloud Server Specification

- *Branded, reliable server hardware*
- *CPU: Intel E5-2407 v2 or better*
- *Memory: 32GB or more*
- *Storage: 2x3TB HDD + 2x250GB SSD for data; 1x3TB in-server backup*
- *Remote management card for remote maintenance*

Sample models

- *Dell T320 / R330*
- *HP ML150 / DL120*
- *Lenovo x3500 / x3650*

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