

Open digital educational tools for interactive online teaching and learning

for teachers and students



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- [Animoto](#) – Gives students the ability to make a short, 30-second share video of what they learned in a given lesson.
- [AnswerGarden](#) – A tool for online brainstorming or polling, educators can use this real-time tool to see student feedback on questions.
- [The Answer Pad](#) – Allows teachers to capture data from students using the web or the app and is touted as being ideal for the flipped or blended classroom.
- [AudioNote](#) – A combination of a voice recorder and notepad that captures both audio and notes for student collaboration.
- [Backchannel Chat](#) – This site offers a teacher-moderated version of Twitter. An extension of the in-the-moment conversation might be to capture the chat, create a tag cloud, and see what surfaces as a focus of the conversation.
- [Biblionasium](#) – This online, safe, and simple book network allows teachers to view books students have read (a digital reading log), create reading challenges for students, and track progress. Students also can review and recommend books to their peers on the site.
- [Binumi](#) – Powering cloud-based video platforms for the world's most forward-thinking organisations
- [BookSnap](#) – While currently this app is only available for iOS, it provides a digital way for learners to interact with text a with

- [Buncee](#) – A creation and presentation tool that helps students and teachers visualize, communicate, and engage with classroom concepts and ideas.
- [Chatzy](#) – Use Chatzy to support backchannel conversations in a private setting. These live chats make great companions to classroom discussion, provide exit tickets, or keep a discussion going after the class is over.
- [ClassKick](#) – This app allows teachers to post assignments for students, so both the teacher and peers can provide feedback on the assignment. Students can monitor their progress and work.
- [ClassPulse](#) – A mobile and web app that increases student engagement outside of the classroom by creating a more collaborative environment.
- [ClassVR](#) – Virtual environment for primary school students
- [Coggle](#) – A mind-mapping tool designed to understand student thinking.
- [Conceptboard](#) – This software facilitates team collaboration in a visual format—similar to mind-mapping, but using visual and textual inputs. Compatible on tablets and PCs, Conceptboard can work from multiple devices.
- [Crowdsignal](#) – Quick and easy way to create online polls, quizzes, and questions. Students can use smartphones, tablets, and computers to provide their answers, and information can be culled for reports.
- [Dotstorming](#) – A whiteboard app that allows digital sticky notes to be posted and voted on. This tool is best for generating ideas

- [Educreations Interactive Whiteboard](#) – A whiteboard app that provides students the tool to share understanding and comprehension.
- [Edmodo](#) – An interactive learning platform where students and teachers can collaboratively solve questions.
- [Edulastic](#) – Allows teachers to create standards-aligned assessments quickly and get instant feedback from students to adjust learning.
- [eSurvey Creator](#) – A tool that allows teachers to quickly and easily build questionnaires and surveys. There is a free option but it's for a limited period of time.
- [Expeditions](#) – Google Expeditions is an immersive education app that allows teachers and students to explore the world through over 1000 virtual-reality (VR) and 100 augmented-reality (AR) tours. You can swim with sharks, visit outer space, and more without leaving the classroom.
- [Five Card Flickr](#)– Designed to foster visual thinking, this tool uses the tag feature from photos in Flickr.
- [Flipgrid](#) – This tool has been recently updated. Students can use 15-second to 5-minute videos to respond to prompts; teachers and peers can provide feedback.
- [ForAllRubrics](#) – This software is free for all teachers and allows you to import, create, and score rubrics on your iPad, tablet, or smartphone. You can collect data offline with no internet access, compute scores automatically, and print or save the rubrics as a PDF or spreadsheet.

the results in real time, and then provide immediate feedback to students.

- [FreeOnlineSurveys](#) – Allows teachers to create surveys, quizzes, forms, and polls quickly and easily.
- [Google Forms](#) – A Google Drive app that allows you to create documents that students can collaborate on in real time using smartphones, tablets, and laptops.
- [GoSoapBox](#) – Free for less than 30 students, this all-student response system works with the Bring Your Own Device (BYOD) model, so no charge for a clicker. One of the most intriguing features for me is the Confusion Meter.
- [iBrainstorm](#) – An iPad app that allows students to collaborate on projects using a stylus or their finger on screen.
- [Kahoot](#) – A game-based classroom response system, where teachers can create quizzes using internet content.
- [Kaizena](#) – An online tool for providing students with real-time feedback on their digitally-uploaded work. Teachers can highlight or speak to give verbal feedback and attach teacher-created, reusable resources to student work.
- [Lino](#) – A virtual corkboard of sticky notes so students can provide questions or comments on their learning. These can be used like exit tickets or during the course of a lesson.
- [Mentimeter](#) – Allows you to use mobile phones or tablets to vote on any question a teacher asks, increasing student engagement.
- [Micropoll](#) – A great tool for quickly creating polls and analyzing responses. Polls can be embedded into websites as we'

checking for understanding before and after a lesson.

- [Nearpod](#) – This tool is nice in that you can not only gather evidence of student learning, like an all-student response system, but you can also create differentiated lessons based on the data you collected. The basic version (30 students or less) is free.
- [Newsela](#) – A great collection of online resources and articles.
- [Obsurvey](#) – Create surveys, polls, and questionnaires quickly and easily.
- [Padlet](#) – Provides an essentially blank canvas for students to create and design collaborative projects. Great for brainstorming.
- [Pear Deck](#) – Plan and build interactive presentations that students can participate in via their smart device. Limited free usage, and it offers unique question types.
- [Peergrade](#) – A platform that allows teachers to create assignments and upload rubrics. Students upload work and are anonymously assigned peer work to review according the rubric.
- [Piazza](#) – A platform that allows teachers to upload lectures, assignments, and homework; pose and respond to student questions; and poll students about class content. This tool is better suited for older students as it mimics post-secondary class instructional formats.
- [Pick Me!](#) – An easy to use app for an iPod, iPad, or iPhone that facilitates random student selection. Can be organized by class for convenience.
- [Pixton](#) – Free comic storyboard.

Teachers choose from a library of video content from popular sites such as YouTube, Vimeo, and others.

- [Plickers](#) – Allows teachers to collect real-time formative assessment data without the need for student devices. Perfect for the one-device classroom.
- [Poll Everywhere](#) – Teachers can create a feedback poll or ask questions. Students respond in various ways, and teachers see the results in real-time. With open-ended questions, you can capture data and spin up tag clouds to aggregate response. There is a limit to the number of users.
- [Pollmaker](#) – A popular polling tool that has some unique features, such as allowing multiple answers to one question.
- [ProProfs](#) – Build and test knowledge with quick quizzes, polls, and surveys.
- [The Queue](#) – Free educational chat tool that mirrors Twitter and allows teachers to post questions and students to respond via the thread. Students can respond via text or video, and the tool allows “journeys” in which teachers introduce a topic via video and connect students to participating resources. Great for gathering formative assessment data at the beginning, middle, or end of units.
- [ThingLink](#) – An interactive panel, where a picture or a video is a canvas with linked hot spots.
- [Quia](#) – Teachers can create games, quizzes, surveys, and more, and access a database of existing quizzes from other educators.
- [Quick Key Mobile Grading App](#) – Helps teachers with accurate

- [QuickVoice Recorder](#) – Another free voice recording app for the iPhone or iPad that allows you to record classes, discussions, or other project audio files. You can sync your recordings to your computer easily for use in presentations.
- [Quizalize](#) – A great tool that allows teachers to easily create quizzes and homework for students. Teachers can then see how the students did and identify areas for improvement.
- [Quizlet](#) – Create flashcards, tests, quizzes, and study games that are engaging and accessible online and via a mobile device.
- [Quizizz](#) – Interesting assessment forms.
- [RabbleBrowser](#) – An iPad app that allows a leader to facilitate a collaborative browsing experience.
- [Random Name/Word Picker](#) – This tool allows the teacher to input a class list and facilitates random name picking. You can also add a list of keywords and use the tool to have the class prompt a student to guess the word by providing definitions.
- [RealtimeBoard](#) – Teachers can invite students and collaborate with the whole class in real-time.
- [Remind](#) – A free tool that allows teachers to text students and stay in touch with parents. A great ‘check for understanding’ tool that’s easy to use.
- [Seesaw](#) – This tool helps teachers improve parent communication and makes formative assessment easy, while students can use the platform to document their learning.
- [ShowMe Interactive Whiteboard](#) – Another whiteboard tool that students and teachers can use to check understanding

- [Sparkpost](#) – This app from Adobe allows teachers to add graphics and visuals to exit tickets.
- [Spiral](#) – A quick tool that gives teachers access to formative assessment feedback.
- [SurveyMonkey](#) – Teachers can create and deliver online polls and surveys.
- [SurveyPlanet](#) – Another survey creation tool that teachers can use to gauge student learning.
- [Tagxedo](#) – A tag cloud generator that allows you to examine student consensus and facilitate dialogue.
- [Telegami](#) - A mobile app that lets you create and share a quick animated Gami video.
- [Triventy](#) – A free quiz game platform that allows teachers to create quizzes students take in real-time. These live quizzes provide teachers with real-time data on student understanding of classroom concepts. Students need individual devices to respond to quiz questions (compatible with mobile devices and laptops).
- [Typeform](#) – A poll creation tool that lets teachers add in graphical elements.
- [Verso](#) – Described as a feedback tool, this app allows teachers to set up learning using a URL. Space is provided for directions. Students download the app and input their responses to the assignment. They can then post their comments and respond to the comments of others. The teacher can group responses and check engagement levels.
- [Visme](#) – Free infographic software

the recording into slide shows, presentations, or websites. Great for collaborative group work and presentations.

- [VoiceThread](#) – Allows you to create and share conversations on documents, diagrams, videos, pictures, or almost anything. This facilitates collaborative student discussion and work.
- [Voxer](#) – Consider using this voice recording tool as a way to let students listen and self assess their ideas and assignments. You can send recordings to parents, so they can hear how their students are doing, let students chat about their work, or provide feedback to students.
- [WeVideo](#) – An online video editor.
- [Wiser](#) – Interactive blended worksheets.
- [Wordables](#) – The Word Cloud Guessing Game. This app allows you to elicit evidence of learning or determine background knowledge about a topic. These word clouds are pictures composed of a cloud of smaller words that form a clue to the topic.
- [WordArt](#) – This word cloud generator has an added feature that allows the user to make each word an active link to connect to a website you determine.
- [Wordle](#) – Generates tag clouds from any entered text to help aggregate responses and facilitate discussion.
- [WordSalad](#) – This app generates word clouds from the text you provide, and they can be exported and shared.
- [XMind](#) – A mind-mapping software for use on computers and laptops

- [Zoho Survey](#) – Teachers can create surveys that students can access and take using a mobile devices. Teachers can see results in real-time.
- [Zotero](#) – A personal research assistant.

Websites for coding and programming

- [Petlja](#) – resources for computer science classes (programming) per official curriculum in Serbia
- [Startit](#) - series of articles on programming in Serbian language (this is the first in the series)
- [FreeCodeCamp](#) - list of online places where you can learn things related to programming – all for free (in English language)
- [Škola koda](#) - commercial coding school with a lot of online material for free
- [Web programiranje](#) - handy articles for entering the world of programming, all in Serbian language
- [Kampster](#) - LMS is very good, the courses available for free look very good, and so does the classroom communication system. They also have a [solution](#) for schools.

Educational video channels

- Big collections on YouTube that cover many channels:

<https://www.youtube.com/education>

<https://www.youtube.com/user/BIEPBL>

<https://www.youtube.com/user/DiscoveryEducation>

- [SUPER NAUKA](#) – An interesting series of videos that provide answers to the peculiar questions that bother us all, from why the sky is blue to what virtual reality is. It is narrated in Serbian, and the narrators are famous people from Serbian culture and art spheres who explain the phenomena in a nice way.
- [Easy Start](#) - Educational platform with recorded video materials accompanying the curriculum of primary school in the Republic of Serbia.

Selection of useful YouTube channels:

- [Khan Academy](#) – One of the best known collections of video tutorials for a wide variety of subjects for different ages. Mobile phone app can also be used for the collection. It can be used together with the platform that is in Serbian <https://sr.khanacademy.org/>.
- [BBC Teach](#) – A large database for 22 subjects from kindergarten to secondary school. Teaching materials on the website can also be used with the videos <https://www.bbc.co.uk/teach>
- [TED ed](#) – A large collection of animated stories about various phenomena – scientific, social and artistic. Animated stories can be used with the platform [TEDed](#), which provides the opportunity for interactive collaboration between teachers and students, with quizzes, reflections and reference materials that can be further

together with the platform <https://phet.colorado.edu/>. Depending on the subject, can be used for all school ages.

- [Veritasium](#) – A very interesting channel with a lot of unusual experiments, puzzles, songs that are used as reminders for various scientific concepts (for example, [Atomic Bonding](#)). It could be best used for upper primary school grades and secondary school.
- [Crash Course](#) – A channel with scientific phenomena presented in a very funny way. It covers a variety of topics, from historical facts to astrophysics problems. Intended for secondary school students, but if adapted and more thoroughly analysed, it can also be used for upper primary school grades.
- [AsapSCIENCE](#) – A rich collection of animated videos that address various scientific questions. The humorous animation can be very interesting for lower grades, even when the topics are very difficult to understand.
- [Art for Kids Hub](#) – Over a thousand videos for drawing instructions. Intended for younger ages.
- [Peekaboo Kidz](#) – Cute videos for young children answering various questions “Why? How?”
- [It's AumSum Time](#) – Very cute animations on various “What if...?” questions that may be interesting to students of lower primary school grades, such as “What if we lived on Mars?”.
- [National Geographic](#) – A collection of videos accompanying the articles on the website [National Geographic](#). Particularly interesting are the 360° videos, such as exploring the [coral reef](#)

- [Kurzgesagt – In a Nutshell](#) – Nicely animated short videos providing answers to various questions from various fields with the motto “Nothing in the universe is boring if you tell a good story”. Can be used for all grades.
- [The Organic Chemistry Tutor](#) – A collection of videos presenting instructions for solving problems in organic chemistry.
- [Step-by-Step Science](#) – Explains concepts in physics, chemistry, mechanics, electronics and astronomy for secondary school students.
- [MIT OpenCourseWare](#) – Video recordings of lectures by MIT professors on various topics such as bitcoin economics or stellar archaeology. Intended for university students, and in an adapted form maybe for students of vocational secondary schools.
- [Educational Documentary](#) – A large collection of feature-length documentaries produced by BBC, National Geographic, History Channel, Discovery Channel, etc. Some last 30 minutes, but there are others that last for an hour and a half.
- [Philosophy Tube](#) – A collection of video stories about philosophy but in a very modern and entertaining way. It covers various topics, from the Introduction to Hegel's Philosophy to the modern ethical issues.