

<https://medienportal.siemens-stiftung.org>

# The media portal

Digital teaching materials for sciences and technology

Digital learning formats offer tremendous potential to meet the challenges of today's diverse classrooms and give students the tools they need to thrive in a world defined by information technology. The media portal – home to the Siemens Stiftung's educational program Experimento – supports education professionals with contemporary content designed to generate enthusiasm for STEM subjects among schoolchildren and stimulate a lifelong interest in scientific issues.

## Building skills with a real-world curriculum

The media portal features a library of teaching and learning materials in English, German, and Spanish (over 5,500 as of February 2017) available for free download. The media – which address a broad spectrum of issues relating to health, energy, and the environment – are tailored to the curriculum and designed specifically for classroom use. Many of the media have been made available under an open license as Open Educational Resources (OER) beginning in May 2015.

Teachers can select from a broad spectrum of media, including content packages for interactive whiteboards, graphics, simulations, information sheets, experimentation instructions, worksheets and answer sheets, teaching methods, videos, and much more. The library includes both standalone media and predefined media packages on specific topics.

The diversity of the media is mirrored by the diversity of content and methods of application. Students are accompanied in all phases of the learning process with media designed specifically for presentations, independent study, experimentation, exercises, monitoring progress, and hands-on use. The media also support various social forms such as group work and projects to accommodate today's educational methodologies. The teaching materials impart the skills children need to understand specialized subjects and methodologies and for their own personal development. They give young students diverse opportunities to discover science, grasp contexts, and learn how this knowledge ties into the world around them. Diverse topics and contemporary issues stimulate and nurture a lasting curiosity for scientific and technical interrelationships.

## Developing an OER platform

Over 40,000 education professionals from 119 countries around the world are already taking advantage of the media portal library. These media are subject to certain conditions that limit how users can distribute and adapt them. The Siemens Stiftung is gradually lifting these restrictions by making more and more of its media available under a Creative Commons license (CC BY-SA 4.0 international). OER can be downloaded for classroom use, but unlike the conventional media content, they can also be modified, shared, and republished to meet the needs of the individual user. With this move, the Siemens Stiftung is supporting UNESCO's call for "universal access to high-quality education."

## Media portal at a glance

Our media:

- explore the full spectrum of health, energy, and environmental issues
- are suitable for use in primary and secondary schools
- support hands-on, skills-oriented instruction
- offer flexible didactic-methodological concepts
- offer a multi-perspective approach
- support science instruction for non-native speakers
- make it easy to customize content for diverse needs
- are available individually or as themed media packages
- have already won many national and international prizes (Comenius Seal, Erasmus EuroMedia Seal, Official Project of the UN World Decade "Education for Sustainable Development")

## Just a few mouse clicks away

After completing the simple registration process, users can search for the teaching materials they need, then use them online or download them for free, all in just a few easy steps. You can search by keyword, by predefined media packages, or by educational criteria such as classroom subject, type of learning object, or class level. All the media are available for free classroom use. Media offered under an open license are also accessible without prior registration.

Register with the media portal at <https://medienportal.siemens-stiftung.org>



## Contact

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The media portal offers teachers some 5,500 materials for STEM education.