

# DESIRE Reach out Toolkit

## APPENDIX II



Improving Science Education in Europe

## List of European and national STEM education websites that are publicly accessible

### European portals:

**Scientix** is a community for science and math education in Europe. Scientix collects teaching materials and research reports from European science education projects financed by the European Union: <http://www.scientix.eu>

**eTwinning** is a community for schools in Europe that gives teachers the opportunity to learn, communicate, collaborate, develop projects and share knowledge: <http://www.etwinning.net/>

**inGenious** is the European Coordinating Body in STEM Education. It help creating links between industry and schools. The project aims at reinforcing young Europeans' interest in STEM education and careers with examples and knowledge on concrete careers opportunities within the science field: <http://www.ingenious-science.eu>

**eQNET** is a public service for schools for the exchange of educational resources. The platform offers about 130,000 learning resources/assets from over 25 providers: <http://www.eqnet.eun.org>

**Primas** is a project developed by fourteen universities from twelve different countries to further promote the implementation and use of inquiry-based learning in mathematics and science. PRIMAS has provided materials for direct use in class to support an environment for inquiry-based learning in STEM: <http://www.primas-project.eu/>

**Science in School** is a journal that promotes inspiring science teaching by encouraging communication between teachers, scientists, and everyone else involved in European science education. The journal is published quarterly and is available free on this website. <http://www.scienceinschool.org/>

**Virtual Science Hub** is a good example of a collaborative social network for creating and sharing educational knowledge resources. The visual knowledge resources are designed for projection in the virtual or physical classroom integrating multimedia content brought in real time from the local repository or from the internet: <http://vishub.org/>

**The Learning Resource Exchange for Schools** is a portal that includes a teaching resource directory and news and events relevant to teaching: <http://lreforschools.eun.org/web/guest/home>

### Portals per country:

#### Austria:

**Virtual School Austria** is an active discussion, development and evaluation project for the use of IT in education at national and international level. <http://www.virtuelleschule.at/>

**LMS 4 NMS** is a website for middle school teachers in all fields. The webpage has tools to facilitate and improve competence-oriented teaching, team teaching, self-organisation and learning planning: <https://lms.at/>

## Belgium:

In Dutch:

**KlasCement** gives teachers the opportunity share and learn about educational learning tools and resources a digital network: <http://www.klascement.be>

**Playful Atlas association** is specialised in educational projects around art education and science. The association works with science in an accessible and fun way: <http://www.spelenderwijzer.be/>

In French and German:

**Belgian Society of Teachers of Mathematics** inform about mathematics learning activities and publications that take place in French-speaking Belgium: <http://www.sbpm.be/>

**Fégépro** is an association of teachers teaching Geography in the French Community of Belgium. The website gives relevant information on the evolution of knowledge in the discipline and innovative methodologies to support classroom work: <http://www.fegepro.be/>

**Association of Biology Teachers** for the French and German-speaking community of Belgium. The association brings together biologists, especially biology teachers to acquire and share scientific and pedagogical knowledge: <http://www.probio.be/>

**Belgian Association of Professors of Physics and Chemistry** organises olympiads, conferences and seminars and the portal hold news and courses in chemistry and physics for teachers and students: <http://abppc.info/wp/>

## Bulgaria

**Copernicus** organises free courses in astronomy and conferences and seminars for schools: <http://astro-varna.com/bg/index.php>

## Croatia:

**The Sea of Science** provides in-service training for all teachers in primary and secondary schools in order to develop inquiry-based learning, in the fields of natural sciences and technology: <http://more.znanost.org/>

**Connect :: Portal** is a platform that promotes public dialogue on science and education. The portal has a database with teaching materials and give space for regional and thematic networks: <http://portal.connect.znanost.org/>

## Czech Republic

**Methodological Portal** provides articles, resources, discussions and online courses for teachers. The site is run by the Czech Ministry of Education: <http://rvp.cz/>

**Animated physics** is a website with resources for physics teaching: <http://www.animfyzika.wz.cz/>

**Bobriki Science** is a portal that has ICT contest for primary and secondary students: <http://www.ibobr.cz/>

**Unity for Educational Informatics** is an association of ICT professionals in education: <http://www.jsi.cz/>

**Scientific Journal for Science and Mathematics Education Research:** <http://www.scied.cz>

**Society of Czech Maths Teachers** provides seminars and conferences and has a portal that provides information and materials that support the teaching of mathematics:

<http://class.pedf.cuni.cz/newsuma/Default.aspx>

**Union of Czech Mathematicians and Physicists** is a pedagogic society that support and prepare physics teachers from primary and secondary school and college level:

<http://www.jcmf.cz/?q=cz/node/278>

**Methodological RVP.CZ** portal was created as methodological support to teachers and to support the implementation of the educational framework programs in schools. The main purpose is to create an environment in which teachers can inspire and inform each other about their experiences and teaching resources:

<http://dum.rvp.cz/vyhledavani/prochazet.html?rvp=Z>

**Na Beránku** is the website of a nursery and primary school that look to create conditions for pupils and school staff for education and training: <http://www.naberanku.cz/>

### Denmark:

**The Nature and Life Sciences Faculty of Copenhagen University** offers school visits that gives insight to scientific method and investigative dimensions for schoolchildren:

<http://www.science.ku.dk/oplevel-science/grundskolen/>

**NTSnet** is a portal that provides information of local activities, teaching materials and community building in specific subjects in STEM education: <http://ntsnet.dk/>

**Folkeskolen** is an online magazine that provide news, background knowledge and perspective on teaching, learning and working in schools: <http://www.folkeskolen.dk/>

**Innovativ Læring** is a website that provides a supportive model for teachers to ensure their students gain and understand the basic knowledge and the problems that lies within the professional expertise of a subject: <http://ilmodel.skoleblogs.dk/>

### Estonia:

**Innovation Centre for Digital Education** aims to foster pupils' interest towards science and help them acquire the skills for using modern technology wisely in the course of their studies:

<http://www.tiigrihype.ee/et>

**School Life** is an Estonian Teachers' Portal that contains teaching materials, community building opportunities and announce teachers training possibilities: <http://koolielu.ee/>

### Finland:

**Luma** is a national online magazine in science, mathematics, computer science and technology education the website provide: <http://www.luma.fi/>

**EDU.fi** provides teaching and learning materials and methodology for nursery and primary education, and secondary school-related information: <http://www.edu.fi/>

## France:

**Science in school** is a governmental initiative that supports and encourages cultural scientific projects in secondary education. They provide and organise scientific and technical workshops and scientific clubs: <http://www.sciencesalecole.org/>

**The C.Genial Foundation** is a private organisation that raises awareness of the importance of science and look to engage young people in science, technological innovation and research: <http://www.cgenial.org/>

**La main à la pâte** is a foundation that aims at renewing and expanding science teaching in school, in France and beyond. Its action focuses on supporting and training teachers in science: <http://www.fondation-lamap.org/fr>

## Germany:

**The German Association for the Advancement of math and science education** (Foundation MNCs): <http://www.mnu.de/>

**Ping** has collected a few interesting links on the topic "Schools Online". Ping provides schools with a complete internet access and of course web space for schools to create their own homepage. In addition it helps schools with installing software and set up a local network: <http://www.ping.de/schule/>

## Greece:

**e-yliko.gr** is the educational portal of the Hellenic Ministry of Education that provides training and resources to teachers: <http://www.e-yliko.sch.gr/default.aspx>

## Hungary:

**Fizkapu** is a portal with both teaching and methodological materials for physics teachers: <http://www.fizkapu.hu/>

## Ireland:

**Knockaclarig GPS Mathematics and Geography** supports mathematics and environmental science in the Irish Primary School. Using Modernity Devices in Authentic Situations: <http://knockaclariggpsmathsgeog.blogspot.ie/>

**Scoilnet** is a portal for Irish education. It offers teaching materials for both teachers, students and parents in all field of education: <http://www.scoilnet.ie/>

## Italy:

**The Science in School** portal offers teaching material for teachers in STEM education: <http://www.scienzeascuola.it/>

**GOLD** is an internet database of the most innovative and interesting teaching experiences made in Italian schools at all levels: <http://gold.indire.it/gold2/>

**NANOLAB** is a project of educational innovation aimed at schools and teachers, aimed at integrating nano-science in school curricula: <http://www.nanolab.unimore.it/it/>

## Latvia

**Science and Mathematics** is a training centre for teachers that aims providing modern learning process in schools in science and math materials: <http://www.dzm.lu.lv/>

## Lithuania:

**Lithuanian Association of Physics Teachers** provides professional and educational activities that distributes educational experience of its members, popularizing scientific and technical achievements in the field of physics: <http://www.lfma.eu/>

**Emokykla** is an education portal with educational information and electronic services to educators, students and parents. It contains general education programs and plans, learning resources, in-service training and discussion forums:

[http://portalas.emokykla.lt/SitePages/em\\_Puslapiai/Naujienos.aspx](http://portalas.emokykla.lt/SitePages/em_Puslapiai/Naujienos.aspx)

## Malta:

**The Malta Council for Science & Technology** is the government body responsible for research policy and promoting useful knowledge on scientific research on education for teachers: <http://www.mcst.gov.mt/>

## Netherlands:

**Biodoen** is a biology website containing teaching materials for Dutch secondary education. Biodoen focuses on innovation in the presentation of teaching materials on the Internet:

<http://www.biodoen.nl/biodoenLite.php>

**Scheikunde** is a chemistry teacher community providing digital teaching materials and other information. Members receive a periodic newsletter with the latest expert information, focused on secondary education: <http://scheikunde.vakcommunity.nl/>

**Digi School Biology** offers online learning materials for students and teachers. The portal holds a repository of information about biology: <http://wp.digischool.nl/biologie/>

**Digi School Scheikunde** offers online learning materials for students and teachers. The portal holds a repository of information about Chemistry: <http://wp.digischool.nl/scheikunde/>

**Netherlands Natuurkundige Vereniging** is the association of physicist teachers Holland. The association focuses on the discipline of physics in secondary education, higher education and research in the Netherlands: <http://www.nnv.nl/>

## Poland:

**Scholaris** a knowledge portal for teachers containing free electronic educational resources tailored to all stages of education. The materials on the site are in accordance with the new core curriculum: <http://www.scholaris.pl/>

**OMIKRON** is a site for physics teachers with formulas, tables, principles of physics and links to teaching activates it also hold online discussion forums and online activities:

<http://www.fizyka.edu.pl/>

**Polska Akademia Nauk** is an institution that provides activities to develop understanding and knowledge of science in society. The organisation organises a multiple science courses and has a calendar of science related events that are taking place in Poland:  
<http://www.pan.pl/>

#### Portugal:

**APMInd** is site of the Portuguese Association of Mathematics for Industry. It promotes and develop several joint initiatives in order to strengthen and promote the role of mathematics in contemporary society, including the connection to industry and knowledge transfer and dialogue between researchers and teachers of higher educational institution:  
<http://cmup.fc.up.pt/cmup/apmind/index.html>

**Associação Juvenil De Ciência is the Portuguese Youth Association of Science (AJC)** - a national association dedicated to the promotion of science among young people:  
<http://ajc.pt/new/>

#### Romania:

**Didactic.ro** is a national community site for teachers. On the site, teachers can find training opportunities, mentors, teaching materials, information on education research and forums to discuss different themes: <http://www.didactic.ro/>

#### Slovakia:

**Matematika** is a site for math teachers that provides ideas, link to useful tools, teaching aids, suggestions and discussion forums to support their practice:  
<http://www.infovek.sk/predmety/matem/index.php>

**Matika.sk** focuses on elementary mathematics and its teaching. The site offers resources to teachers and simple web applications directly useful in maths lessons especially at primary level schools: <http://www.matika.sk/index1.htm>

**SKP** (Slovakian Chemistry Portal) is a site for chemistry teachers with news and articles, useful links, contests and professional support though discussion forums: <http://kemija.org/>

**Hejného matematike** contains innovative methods of teaching mathematics according to Professor Milan Hejného: <http://www.ucmeradi.sk/>

**EQuark.sk** is a community server with the aim of promoting science in society and targets enthusiasts of science and technology. It is possible to find information on scientific experiments relevant for teachers, discussion forums and information about science events:  
[www.equark.sk](http://www.equark.sk)

The Faculty of Science Department of Biological and Environmental Sciences at the University of Pavol Jozef Safarik, Kosice has developed a site with activities for teachers and pupils of primary and secondary school: <http://kluby.science.upjs.sk/>

**Zborovna** is a website where teachers can share experiences and education materials in all fields: <http://www.zborovna.sk/novinky/index.php>

## Slovenia:

**Routledge Slovenian** is a website developed by the society of Mathematicians, Physicists and Astronomers of Slovenia. The society provides training activities information about competitions and newsletters for teachers and students: <http://www.dmfa.si/>

**The Ministry of Education, Science and Technology** provides educational training for professionals in education, to ensure didactic innovation in educational work. The training is designed to make teachers acquire new knowledge, skills and qualifications to teach:

<http://lim1.mss.edus.si/katis/default.aspx>

## Spain:

**Ciencia en el Aula** is a national program provided by the Higher Council for Scientific Research and the BBVA foundation with the aim of establishing a partnership between researchers and teachers. The site also facilitates the publication and exchange of teachers' educational experiences: <http://www.csicenlaescuela.csic.es/proyectos/proyectosdid.htm>

## Sweden:

**Skolverket** is an Agency that works to increase students' and childrens' interest and knowledge in science and technology. They support teachers in achieving knowledge about current developments and efforts in science and technology teaching.

<http://www.skolverket.se/skolutveckling/larande/nt>

**Experiment Banken** is a site containing a database of chemistry experiments to support teachers and students carrying out experiments in the middle school:

<http://experimentbanken.kc.lu.se/index2.html>

**School Chemistry** is a site initiated by University of Umeå to support chemistry teaching and stimulate interest in chemistry among students in primary and secondary education:

<http://school.chem.umu.se/Compiled/>

**Pedagog Stockholm** is the site for teachers and preschool teachers from schools and kindergartens of Stockholm. The site informs about career opportunities, resources and events it also contains interesting videos and articles and blogs: <http://www.pedagogstockholm.se/>

## United Kingdom:

**STEMNET** works with activities that can enable all young people to achieve their potential in STEM. It supports schools and teachers across the UK to provide good STEM education and encouraging businesses, organisations and individuals to support young people in STEM:

<http://www.stemnet.org.uk/>

**The National STEM Centre** houses the UK's largest collection of STEM teaching and learning resources, in order to provide teachers of STEM subjects with the ability to access a wide range of high-quality support materials: <http://www.nationalstemcentre.org.uk/>

**TES Primary** is a community for primary teachers. It is possible to find lesson ideas and share best practice and get questions answered by teacher peers. This is also the place for debate on primary teaching: [http://community.tes.co.uk/tes\\_primary/f/36/t/571432.aspx](http://community.tes.co.uk/tes_primary/f/36/t/571432.aspx)