

## Siemens brings healthcare to life with interactive online tools to enhance teaching and learning

- **New online resources to support teachers with science, technology, engineering and maths (STEM)**
- **Additional healthcare resources for and personal, social and health education (PSHE) curricula**

Siemens Healthcare has launched a range of new online resources to support teachers with science, technology, engineering and maths (STEM). The new materials also support lesson workshops for personal, social and health education (PSHE) curricula.

The tools aimed at teachers and pupils - mixed age range: KS2, KS3 and KS4 (7-16 years), provide an introduction to medical technology including MRI, X-ray, fluoroscopy and ultrasound, how they are used to help patients and detail the technology behind them. The tools are designed to enrich and enhance teaching and learning when exploring healthcare topics.

Resources are linked to the curricula as taught across the UK for pupils and support programmes of study and attainment targets for the health and well-being science syllabus. The tools include lesson plans that incorporate a range of engaging activities including an introduction to a unique downloadable [MRI Scan App](#) to provide students with a 360° virtual MRI scan experience. The app also enables students to simulate scanning items, find out more about the steps from referral to results, and answer questions about the technology and processes involved.

“Siemens is committed to raising the aspirations of young people within STEM fields and has built on the tools available to engage pupils with healthcare topics. As a leading force within the technology sector, Siemens is dedicated to helping enrich and enhance schools across the UK with a range of free resources,” states Laura Bennett, Communications and Government Affairs Manager at Siemens plc. “The new tools provide a wealth of valuable information, but also hands-on tasks to help put theory into practice. This includes a cardboard cut-out MRI scanner for pupils to build and discuss that we hope will help to bring excitement and creativity around healthcare topics in the classroom.”

The lesson plans also contain discussion ideas, task suggestions and practical activities. The ‘A Peep Inside’ task enables students to develop knowledge and understanding of the relationship between the properties of electromagnetic waves and their uses within medical equipment. The ‘Inside the Human Body’ activity allows pupils to observe some of the systems within the body and incorporates engaging games and quizzes to test their anatomy and nutrition knowledge. The ‘Medical Magnetism’ session enables students to understand how engineers apply knowledge of physics and magnetics to develop lifesaving MRI scanners.

Laura Bennett adds, “The new tools available on the Siemens Education Portal aim to inspire students, support teachers and instill an early interest in healthcare and related STEM subjects. We hope that through a range of curriculum-based schemes of work and interactive teaching methods, we can excite and inspire pupils’ curiosity and enthusiasm whilst nurturing the talent of the future.”

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**Picture caption:** Siemens Healthcare has developed a range of resources to enrich and enhance teaching and learning when exploring healthcare topics including the MRI Scan App which includes a 360° virtual MRI scan experience.



## About Siemens

**Siemens AG** (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is No. 1 in offshore wind turbine construction, a leading supplier of combined cycle turbines for power generation, a major provider of power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2014, which ended on September 30, 2014, Siemens generated revenue from continuing operations of €71.9 billion and net income of €5.5 billion. At the end of September 2014, the company had around 357,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).