EXPLORE 11–14 postcard will bring science careers alive in the classroom

This postcard is designed to alert students to the career possibilities open to those who study physics at post-16 level. It is suggested that they can be used as a teaching resource rather than just being handed out at a careers event.

Here are some ideas about how you might use the postcard:

1. Use the images on the front to start a discussion:
- What is the connection between the various images and physics?
- Why do you think someone has chosen these images?
- Which are the areas that interest you most?

2. Ask your pupils to find out more about some of the things featured on the reverse of the postcard. Here are some helpful links:

Why toast lands butter-side down
- For a short video clip and an outline of an investigation, visit the Planet SciCast website at http://www.planet-scicast.com/experiment.cfm?cit_id=2688.
- For a little more advanced physics, to explain what is going on, visit http://www.geocities.com/Omegaman_UK/bread.html.

iPod and laptop technology (2007 Nobel Prize in Physics)
- http://www.guardian.co.uk/science/2007/oct/09/sciencenews.news

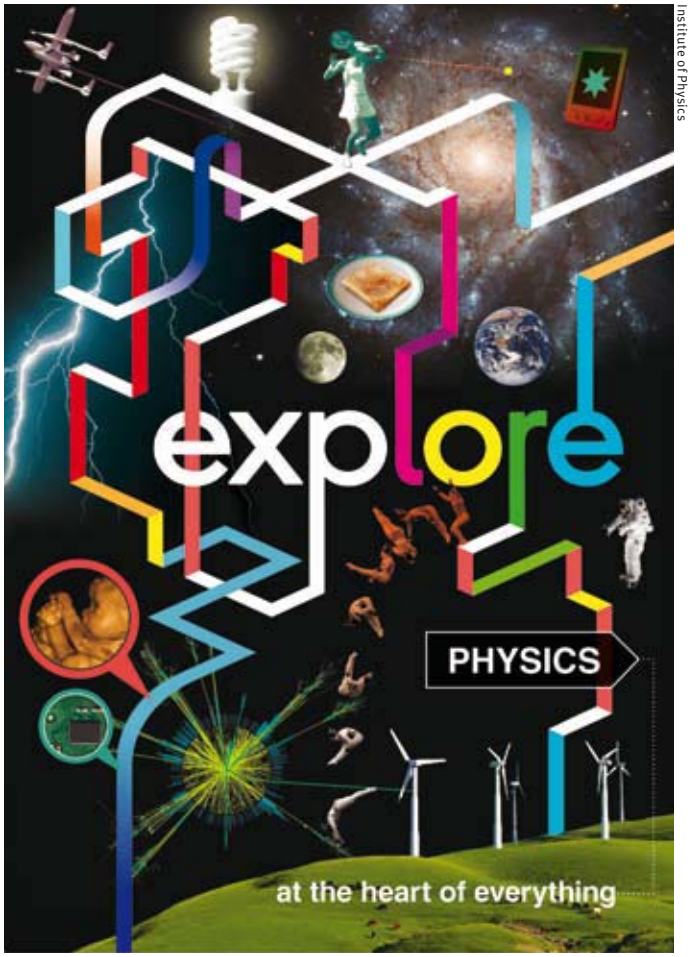
Flying car
- http://www.guardian.co.uk/science/2009/jan/14/skycar-parajet-timbuktu

Why is the sky blue?
- http://www.sciencemadesimple.com/sky_blue.html

Are raindrops round?
- http://ga.water.usgs.gov/edu/raindropshape.html

The search for aliens
- http://setiathome.ssl.berkeley.edu/

The internet
- http://en.wikipedia.org/wiki/Internet



Institute of Physics

History of the world wide web
- Visit http://en.wikipedia.org/ and search for "world wide web".

3. Ask students to research the careers mentioned at the bottom of the second side of the post card (e.g. architect, lawyer, doctor) and to find out whether doing physics beyond GCSE/Standard grade might help them to pursue one of the featured careers.

Careers resource pack is an 'engenious' idea

The Engineering and Technology Board (ETB) Enginuity careers pack and website provides case studies and accessible information about engineering for schools and careers advisers around the country. The resource has now been updated to include more information about the diploma, apprenticeships and qualification routes for young people pursuing a career in engineering. It has more resources for teachers, including lesson plans linked to the design, technology and science national curriculum at KS3.

The pack was sent out to all UK secondary schools in January 2009. The careers materials are also available for downloaded at www.enginuity.org.uk.

To request a copy of the pack, e-mail your name and address to careers@etechb.co.uk or use the contact form available on the enginuity website at www.enginuity.org.uk/contact_us.cfm.

www.earthlearningidea.com
Earth Learning Idea
Innovative, Earth-related teaching ideas

If you are looking for some Earth-related teaching tips then why not head for Earthlearningidea at www.earthlearningidea.com?

The Earthlearningidea team is publishing one new Earth-science activity every month throughout 2009. Last year it published one new activity every week, so there are lots of innovative Earth-related teaching activities, which are all free to download and use to encourage a dynamic teaching and learning environment in class.

The team is calling for any ideas, comments and suggestions relating to the popular Earth science resource via its blog at http://earthlearningidea.blogspot.com or via e-mail (info@earthlearningidea.com), so show your support and get in touch.