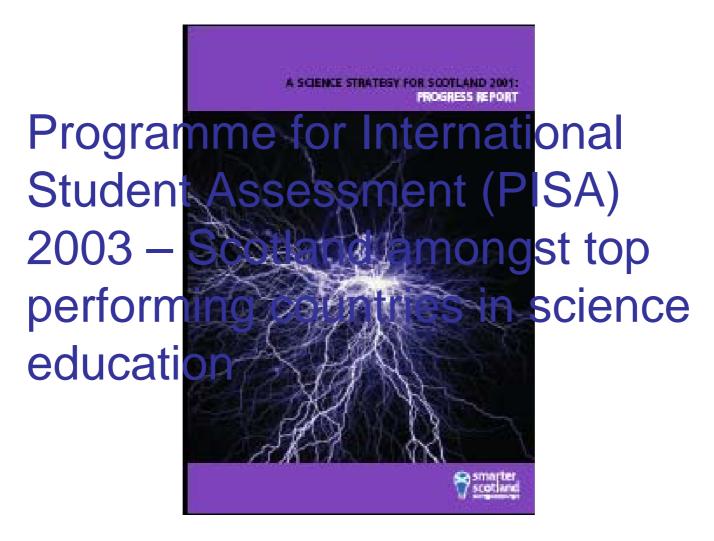
Professor Anne Glover Chief Scientific Adviser for Scotland

Science education – are we losing the plot?

Chief Scientific Adviser

- Raise profile of science in government
- Advising Ministers on science issues
- Ensure best scientific evidence used in policy making
- Strengthen the science base
- Promote science careers
- Public engagement with science

Science strategy



Scottish Science Centres Network

















What is education?

 knowledge developed by a learning process

an enlightening experience

 what do we want the outcome of education to be?

Our starting point

- children naturally inquisitive, always asking why, how, where, what?
- what is science? the observation, identification, description, experimental investigation, and theoretical explanation of phenomena



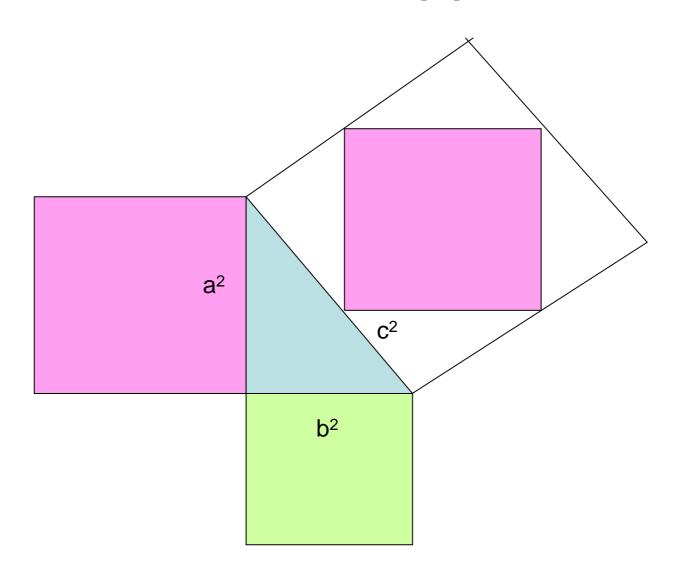




Picture - The Guardian

Learning by doing

Practical application



Pythagoras's theorem: $a^2 + b^2 = c^2$

Science Highers 2001-06

Subject	2001 **	2002	2003	2004	2005	2006
Chemistry	9,903	9,560	9,292	9,271	9,411	9,128
Biology	9,309	9,274	8,920	8,852	8.943	8,995
Human Biology	2,837	3,111	3,296	3,452	3,609	3,720
Physics	10,015	9,580	9,489	9,286	8.952	8,565
English	*	28,910	29,624	28,873	28,707	27,004
Mathematics	20,730	19,790	19,966	19,394	19,181	18,533

Course revised and figures cannot be compared

^{** 2001} was the last widespread SCYS examinations

Why is science education important?

- Our future economy will depend upon well trained scientists
- The public should be active in the debate on the use of future technologies
- The challenges we have to face will require input from science, engineering and technology

Science and Innovation – your input

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- St Andrew's House
- Regent Road
- Edinburgh EH1 3DG
- Telephone: 0131-244 2192
- www.scotland.gov.uk/science

