



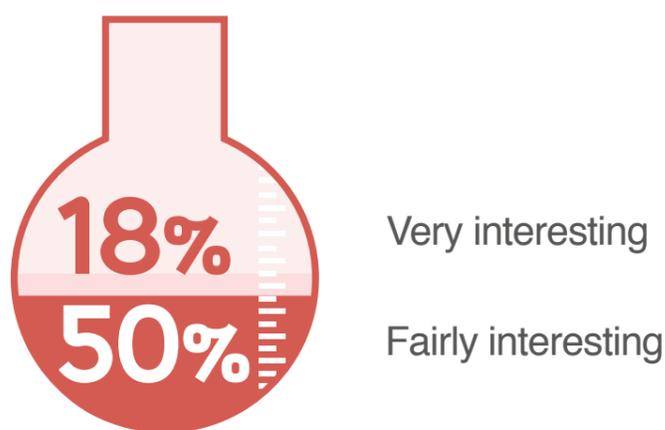
Young people's views on science education

In summer 2016, a representative sample of over 4,000 14- to 18-year-olds at English, state-funded schools and colleges shared their views and experience of science and science careers.

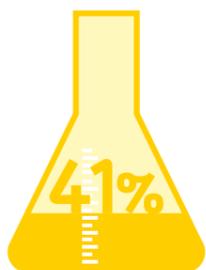
Here we present some of the key results. The full findings are freely available from: <https://wellcome.ac.uk/what-we-do/our-work/young-peoples-views-science-education>

Learning science

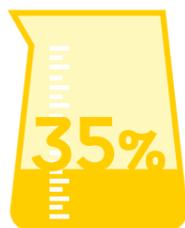
Most young people said they found science lessons at school interesting



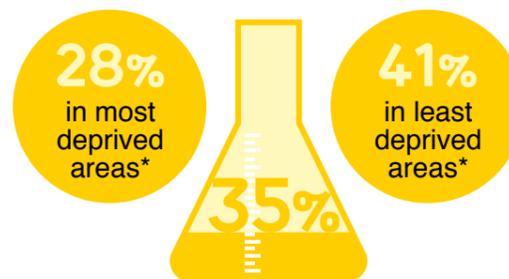
Top factors encouraging young people to learn science



I find science interesting



I like doing practical work/experiments



Having a good teacher

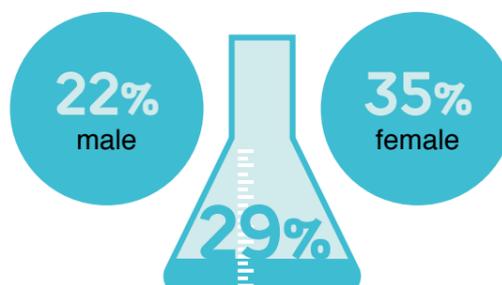


It's relevant to real life

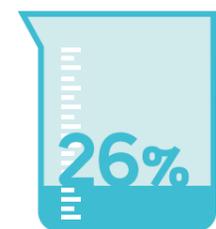
Top factors putting young people off learning science



Having a bad teacher



More difficult than other subjects



Doesn't fit with future study/career plans

*Most deprived areas = young people living in lowest quintile of Income Deprivation Affecting Children Index (IDACI). Least deprived areas = young people living in highest IDACI quintile

Triple science*

Reasons for not studying triple science

37%

of students said that they studied triple science
But this is higher than official statistics

23%

of pupils were entered for triple science (four year average, DfE)



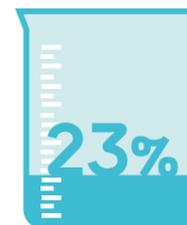
Too difficult/lacked confidence



Didn't achieve grade needed/
not in the right set



Not interested



Not offered by school



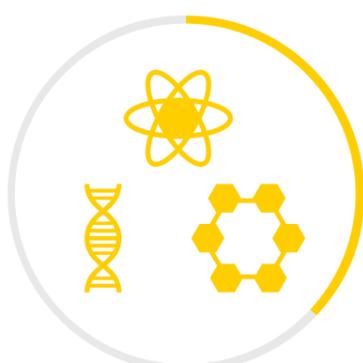
Practical work

45%

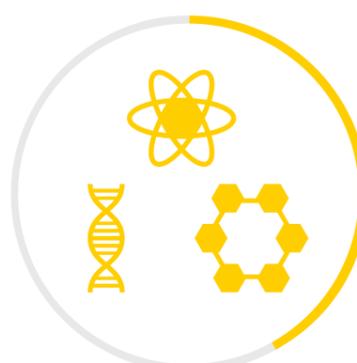
Did hands-on practical work at least once a fortnight



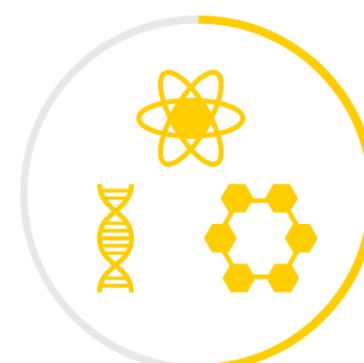
Percent of young people who did hands-on practical work at least once a fortnight



Single science



Double science

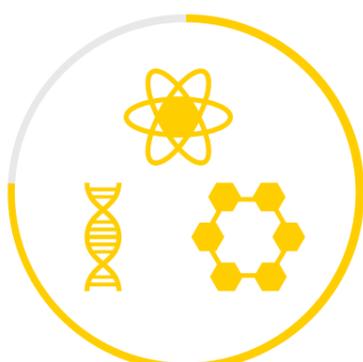


Triple science

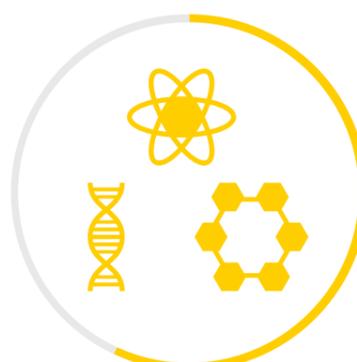
58%

Would prefer to do more practical work

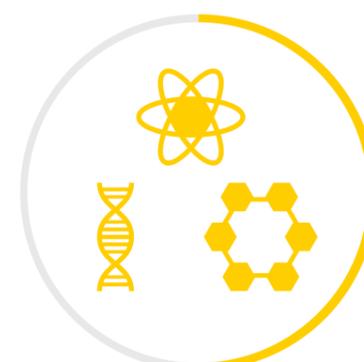
Percent of young people who would prefer to do more practical work



Single science



Double science



Triple science

*GCSE science course worth three GCSEs. This may involve studying biology, chemistry and physics as separate GCSE subjects or studying Core, Additional and Further Additional Science GCSEs
**Most deprived areas = young people living in lowest quintile of Income Deprivation Affecting Children Index (IDACI). Least deprived areas = young people living in highest IDACI quintile

STEM careers

43%

Interested in a career involving science, computer science, engineering or maths (STEM)



Reasons for interest in a science-related career



Enjoy the subject/career



Careers are well paid



Good at the subject



Relates to real world



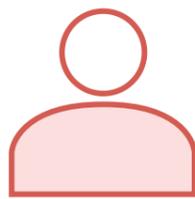
Wide range of career options

Work experience

30%

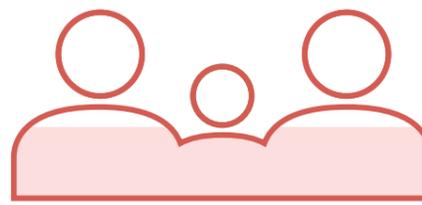
Among those with a firm interest in a science-related career did STEM-related work experience

How work experience was arranged



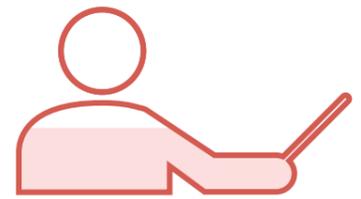
46%

Myself



39%

Through family/friends



35%

Through school/college

28%

Wanted to but were unable to do STEM related work experience

Reasons why they could not do STEM work experience



Didn't know how to find opportunities



Couldn't find relevant opportunities



School didn't offer



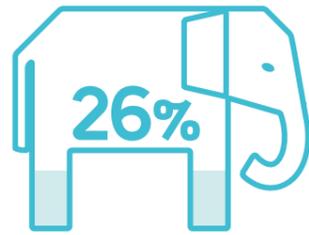
Didn't have right contacts

Informal science learning

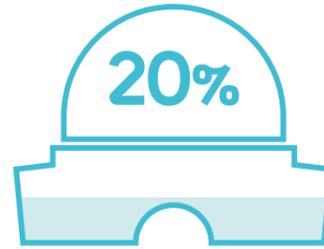
Young people's varied engagement with science outside school in the last 12 months



Engaged with science content outside school (e.g. TV, radio, newspapers, online)



Visited a zoo or aquarium



Visited a science museum, science centre or planetarium



Visited a historical or cultural museum

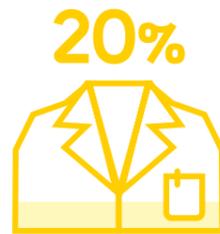
Extra-curricular science activities

Any activity:

Extra-curricular activities by young people in the last 3 years



But male students were more likely to say that these activities had encouraged them to study science



Talk at school by someone in a science-related job (e.g. STEM ambassador)



Science event, fair (e.g. Big Bang Fair)



Science, computer science, engineering or maths club



Science Extended Project Qualification* or CREST award

* An Extended Project Qualification can be taken as a post-16 Level 3 course, comparable to half an A level.

Interest in hearing from scientists



Are interested in hearing more from scientists about their research