

STEM quiz answers

1. What does STEM stand for? **Science, Technology, Engineering and Maths.**
2. True or False: This is a real STEM job:

Legoland Designer
Sports statistician
Spotify engineer
Professional hacker

All true

3. How many people work in STEM in the UK? **5.8 million people, 20% of the workforce. 72% of UK businesses rely on people with STEM skills.**
4. Where is Europe's research centre for nuclear fusion?

Switzerland
France
Germany

UK (Oxfordshire) [Culham Centre for Fusion Energy](#)

5. If I do a science degree or A levels, do I have to be a scientist? **No lots of industries want STEM graduates and you can convert your degree to go into Law for example or technical sales.**
6. Do I need a university degree to work in STEM? **No – you can go through an apprenticeship scheme.**
7. How much more do STEM graduates earn in their lifetime in comparison to non-graduates?

£50,000
£100,000
150,000
£250,000

Graduates tend to earn £160,000 more than non-graduates; whereas STEM graduates earn a whopping £250,000 more in their lifetime. Chemistry and Physics graduates will earn on average over 30% more during their working lifetimes than other A level holders.

New study: <http://www.telegraph.co.uk/finance/jobs/11008228/The-value-of-a-degree-500000-over-your-career.html>

8. True or False: STEM careers aren't for creative people

False! Examples:

<http://www.rainbowwinters.com/home2.html> - they have developed clothing that reacts to different stimuli such as water or light.

Using electronics in textiles, previously worn by Katy Perry. <http://cutecircuit.com/>

Research and development at Cadbury's to make a new chocolate!

Designing an interesting building/stadium/etc (engineering) – one example is the London Olympics stadium which made use of wasteland

Developing a brand new type of camera for surgery, based on a snake
<http://www.theguardian.com/science/2007/dec/29/medicalresearch>

Making energy from waste

Special effects for films

The Angel of the North

Figuring out how old a painting is with chemistry

A robot bear that cares for the elderly <http://news.bbc.co.uk/1/hi/sci/tech/1829021.stm>

9. How many types of STEM professionals are involved in making sure your water is clean? **Nine**

From [Future Morph website](#):

- A [water treatment worker](#) – adds chemicals and microbes to water and monitors it to make sure it's safe for people to drink
- A [civil engineer/water engineer](#) – managing water supply and drainage networks and installing flood barriers
- A [geoscientist](#) – searching for new water supplies and assessing safety and impact of work done by Civil Engineers
- A [geotechnician](#) – obtaining and analyzing samples and interpreting data to support the work of geoscientists
- A [chemist](#) – developing ways to keep water supplies clean
- A [meteorologist](#) – measuring and predicting the weather so people are prepared for floods or droughts
- A [water quality scientist](#) – maintaining the quality of water by testing and comparing samples
- An [environmental consultant](#) – identifying any sources of contamination which affect water supplies
- A [waste management officer](#) – managing waste so that it does not contaminate water supplies