A Future in Chemistry

At School:
Explore your options
About me

Where I work
What inspired me to choose my career.
What is the “impact” of what I do

Sub Header
Sentence describing what I do
Sentence describing what I enjoy most about it
Sentences on how I got into it.
First step: get to know yourself

What do you enjoy?

What is important to you?

How involved with science do you want to be?

How much studying do you want to do when you leave school?

Have you ruled anything out...Why?
Where do you want to work?

**Academic organisation?**
Part of a shared-interest-community, teaching courses, publishing papers.

**Industry?**
Good salaries, deadline-driven, careers in different areas across the business.

**SME – startup?**
Fast-paced, more responsibility, learn on the job, opportunities to rise fast.
Now…

Write down:
- What you enjoy
- What is important to you
- One or two jobs you have ruled out and why
Where chemistry could lead you
Chemistry helps protect and clean up the environment
Chemistry saves lives
Chemistry feeds the world
Chemistry helps solve crime
Chemistry helps solve the world’s biggest challenges

Chemistry is at the centre of everything you can see, smell, touch and taste
Learning chemistry gives you scientific literacy

To help you:

Appreciate what things are made of and how they work e.g. understanding the ingredients on your cereal packet

Describe and explain natural occurrences

Make decisions on topical issues e.g. climate change, vaccinations

Absorb and talk about science
Career quiz…

Fill in the questionnaire*

Please note: This quiz is a bit of fun that hopefully broadens your ideas of where studying chemistry could lead you.

It is in no way telling you what you should or shouldn’t want to be!

*answer questions on next slide or on print out
QUIZ: Where could chemistry lead you?

<table>
<thead>
<tr>
<th>Q1. Which kind of work appeals to you the most?</th>
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<td>A. Working with your hands</td>
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<td>C. Helping others</td>
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<td>D. Problem solving</td>
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<td>E. Something creative</td>
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<th>Q2. My greatest strength is:</th>
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<td>A. My attention to detail</td>
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<td>B. Thinking logically</td>
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<td>C. Getting on with different types of people</td>
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<td>D. Working through a problem</td>
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<th>Q3. In my spare time, I like to:</th>
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<td>A. Build things, arts and crafts</td>
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<td>B. Puzzles, strategy games,</td>
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<td>C. Meet lots of different people</td>
</tr>
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<td>D. Read the news, discuss politics</td>
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<td>E. Read books, listen to music</td>
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<th>Q4. Aside from science, which subjects at school do you enjoy the most?:</th>
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<td>A. Art/Textiles/Design tech</td>
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<td>B. Maths/ICT/Computer science</td>
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<td>C. Health and social care/Sociology</td>
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<td>D. History/Politics/Geography</td>
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<td>E. English/Music/Media</td>
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<th>Q5. I would consider my life a success if I:</th>
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<td>A. Cured a disease</td>
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<td>B. Earned a lot of money</td>
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<td>E. Was able to express myself</td>
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<th>Q6. Pick a word that most closely describes what you’d like the world to be in 10 years time:</th>
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<td>A. Healthy</td>
</tr>
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<td>B. Prosperous</td>
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<td>C. Happy</td>
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<td>D. Harmonious</td>
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## Check your answers

<table>
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<th>Your Score</th>
<th>Related jobs</th>
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<td>Mostly As</td>
<td>Researcher, Medicinal chemist, Cosmetic scientist, Biochemist, Material scientist, Oceanographer</td>
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<tr>
<td>Mostly Bs</td>
<td>Tax accountant, Patent attorney, Systems analyst, Software designer</td>
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<tr>
<td>Mostly Cs</td>
<td>Teacher, Doctor, Vet, Nurse, Midwife</td>
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<tr>
<td>Mostly Ds</td>
<td>Forensic scientist, Science policy advisor, Politician, Environmental scientist, Conservationist, Seismologist</td>
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<td>Mostly Es</td>
<td>Games designer, Food scientist, Science journalist, Art restorer, Chef</td>
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Chemical scientists are paid well

- 15% higher starting salaries for chemistry graduates compared with graduate average
- Chemistry graduates have a high employment rate
- 70%+ of chemistry students enter a professional or managerial role after graduation
- Double the UK average go into further study after graduation
Learning chemistry teaches useful skills

Skills for successful careers:
• Problem solving
• Logical thinking
• Reasoning
• Computational skills
• Team working
• Communication

Picture: © Royal Society of Chemistry / Stephen Lake
Learning chemistry you could…

Become an:

**Analytical chemist**: you check what is in substances e.g. blood at a crime scene

**Laboratory technician**: you collect samples, analyse and perform tests on chemicals, materials or products.

**Medicinal scientist**: you design and develop medicine to treat disease

**Production chemist**: you develop products that are made from chemical reactions, such as oil, makeup and fertilisers

**Research chemist**: you study substances to create products and improve processes from new medical treatments to cosmetics, electrical goods, food and drink

**Environmental chemist**: you find out what is in the air, water, and soil to see what impact they have, and how human activity affects the environment.

**Make a difference to our health by discovering new medicines**

**Develop ways of removing plastic waste from the oceans**
What else you can do with chemistry?

From teaching and writing to the law and banking, employers value a chemistry qualification.

One chemistry graduate went on to be a Prime Minister!
Where can you work?

You could work at a

• Medicines, food, energy, materials, packaging, paint or chemicals company
• Hospital
• Environmental agency
• Consultancy
• University
• Government agency
• Public health laboratory
• Testing company
Anywhere
Meet some real chemists

What do a patent attorney, a writer and a researcher have in common? They all have a chemistry qualification.

Greg Foot

Deepika Kurup
Break

Tell the person next to you what surprised you about the careers that are linked to chemistry

Ask the person next to you one thing that they think could be good for their future if they take a chemistry qualification
A Future in Chemistry
Your career starts here

Discover your future in chemistry with our careers website
rsc.li/future-in-chemistry
Find out more about careers in chemistry

Ask questions, share ideas with
• teachers
• career leaders
• me

National careers service: *Browse 100s of roles*
nationalcareers.service.gov.uk/search-results?searchTerm=chemistry

#TeamScience: *Compare careers*
www.teamscience.org.uk/
Follow up activity

1. Choose a classmate to work with
2. Ask your partner a couple of questions about their interests, what they’re good at, what they like at school.
3. Then find them some jobs you think they would like using:
   • nationalcareers.service.gov.uk/
   • www.rsc.org/careers/future/all-profiles
print-friendly version of the profiles at www.rsc.org/learn-chemistry/collections/faces-of-chemistry/careers-with-chemistry
Appendix

• Print-friendly version of the career quiz
• Useful weblinks
Where chemistry could lead you quiz

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Where chemistry could lead you quiz results

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|           | Systems analyst  
|           | Software designer  
| Mostly Cs | Teacher  
|           | Doctor  
|           | Vet  
|           | Nurse  
|           | Midwife  
| Mostly Ds | Forensic scientist  
|           | Science policy advisor  
|           | Politician  
|           | Environmental scientist  
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| Mostly Es | Games designer  
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Teach Chemistry: Faces of Chemistry: printable career profiles
http://www.rsc.org/learn-chemistry/collections/faces-of-chemistry/careers-with-chemistry

LMI for all: compare upto three careers
http://www.lmiforall.org.uk/widget/

National careers service: *Browse 100s of roles* nationalcareers.service.gov.uk/search-results?searchTerm=chemistry

#TeamScience: *Compare careers*
www.teamsscience.org.uk/