

# AQA

## GCSE Chemistry and Careers in Chemistry

Find examples of relevant careers for subsections of the curriculum and link through to job profiles for further information. The profiles will give your students real world examples of jobs in the aspects of chemistry they enjoy most. They are written by teachers for teachers.

Simply click on the job title to go to the job profile on  
A Future in Chemistry.

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## GCSE Chemistry and Careers in Chemistry 1 of 11

### **Unit 4.1 – Atomic structure and the periodic table**

4.1.1 A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes

› [Chief chemist](#)

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4.1.3 Properties of transition metals

› [Project manager, world gold council](#)

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## GCSE Chemistry and Careers in Chemistry 2 of 11

### Unit 4.2 – Bonding, structure, and the properties of matter

#### 4.2.1 Chemical bonds, ionic, covalent and metallic

- › [Postdoctoral research associate](#)
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#### 4.2.2 How bonding and structure are related to the properties of substances

- › [Analytical technician, plastics](#)
  - › [Senior scientist, household goods](#)
  - › [Research fellow](#)
  - › [Science communicator](#)
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#### 4.2.3 Structure and bonding of carbon

- › [Science communicator](#)

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## GCSE Chemistry and Careers in Chemistry 3 of 11

### Unit 4.2 – Bonding, structure, and the properties of matter

#### 4.2.4 Bulk and surface properties of matter including nanoparticles

- › Analytical technician, plastics
- › Senior scientist, household goods
- › Nanotoxicologist
- › Research fellow
- › Research innovations manager
- › Science communicator

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## GCSE Chemistry and Careers in Chemistry 4 of 11

### Unit 4.3 – Quantitative chemistry

#### 4.3.2 Use of amount of substance in relation to masses of pure substances

- › [School science technician](#)
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#### 4.3.4 Using concentrations of solutions in mol/dm<sup>3</sup>

- › [Analytical chemists, Thames Water](#)
- › [School science technician](#)

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## GCSE Chemistry and Careers in Chemistry 5 of 11

### Unit 4.5 – Energy changes

#### 4.5.1 Exothermic and endothermic reactions

› [Chief chemist](#)

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#### 4.5.2 Chemical cells and fuel cells

› [Patent attorney](#)

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## GCSE Chemistry and Careers in Chemistry 6 of 11

### Unit 4.7 Organic chemistry

#### 4.7.1 Carbon compounds as fuels and feedstock

- › Associate researcher, pharmaceuticals
- › Associate scientist, pharmaceuticals
- › Bioanalytical scientist
- › Development chemist, printing and inks
- › Director of medicinal chemistry
- › Fine fragrance evaluator
- › Flavour chemist and innovation director
- › Patent attorney
- › Project leader in enhanced experimentation, oil and gas

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#### 4.7.3 Synthetic and naturally occurring polymers

- › Analytical technician, plastics
- › Consumer products technician
- › Patent attorney
- › Research innovations manager

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## GCSE Chemistry and Careers in Chemistry 7 of 11

### Unit 4.8 Chemical analysis

#### 4.8.1 Purity, formulations and chromatography

- › [Advanced apprentice at an occupational drug testing laboratory](#)
- › [Analytical chemists, Thames Water](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate researcher, pharmaceuticals](#)
- › [Associate scientist, pharmaceuticals](#)
- › [Bioanalytical scientist](#)
- › [Consumer products technician](#)
- › [Director of IRC in biomedical materials](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Senior analytical systems technician](#)
- › [Toxicologist, chemical company](#)
- › [Computational toxicologist](#)

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## GCSE Chemistry and Careers in Chemistry 8 of 11

### Unit 4.8 Chemical analysis

#### 4.8.3 Identification of ions by chemical and spectroscopic means

- › Advanced apprentice at an occupational drug testing laboratory
- › Analytical chemist, healthcare
- › Analytical chemists, Thames Water
- › Assistant analyst, drug control centre
- › Astrochemist
- › Forensic scientist
- › Forensic toxicologist
- › Laboratory analyst and higher degree apprentice, water
- › Research assistant, healthcare
- › Scientific associate, NMR spectroscopy
- › Senior analytical systems technician
- › Sports scientist, British Olympic Association

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## GCSE Chemistry and Careers in Chemistry 9 of 11

### Unit 4.9 Chemistry of the atmosphere

#### 4.9.1 The composition and evolution of the Earth's atmosphere

- › [Astrochemist](#)
- › [Atmospheric chemist](#)

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#### 4.9.3 Common atmospheric pollutants and their sources

- › [Atmospheric chemist](#)
- › [Environmental chemist](#)

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## GCSE Chemistry and Careers in Chemistry 10 of 11

### Unit 4.10 Using resources

#### 4.10.1 Using the Earth's resources and obtaining potable water

- › [Analytical chemists, Thames Water](#)
  - › [Laboratory analyst and higher degree apprentice, water](#)
  - › [Sustainability manager](#)
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#### 4.10.2 Life cycle assessment and recycling

- › [Analytical technician, plastics](#)
  - › [Research innovations manager](#)
  - › [Sustainability manager](#)
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#### 4.10.3 Using materials

- › [Director of IRC in biomedical materials](#)
- › [Laboratory technician and higher apprentice – solar](#)
- › [Project manager, world gold council](#)
- › [Science communicator](#)

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## GCSE Chemistry and Careers in Chemistry

### 11 of 11

#### 4.11 Key ideas

- › Assistant manager, publishing
- › Associate principal scientist, food
- › Finance and planning manager
- › Freelance science publicist
- › Head of chemistry and teacher
- › Investor relations manager
- › Medical research council board secretary
- › Senior picture editor
- › Policy researcher, cancer research UK
- › Senior committee specialist, UK government
- › Tax accountant

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