



# GCSE BIOLOGY (COMBINED)

<b>Paper 1</b> 8464/1 H/F	Topics 1 -4 Cell biology Organisation Infection and response Bioenergetics.
<b>Paper 2</b> 8464/2 H/F	Topics 5 -7: Homeostasis and response Inheritance, variation and evolution Ecology
<b>Exam Board</b>	AQA GCSE combined biology (8464)



## Useful Links/Resources

Malmesbury Education GCSE Biology Required Practicals  
<https://www.youtube.com/playlist?list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP>

BBC Bitesize  
<https://www.bbc.co.uk/bitesize/topics/zthssrd>

GCSE AQA Biology 9-1 / Freesciencelessons Compilation  
Paper 1  
<https://www.youtube.com/playlist?list=PL2HrnZel5wZwl-OJJN3kpZp-2uVQgHkm>  
Paper 2  
[https://www.youtube.com/results?search\\_query=freesciencelessons+biology+paper+2+](https://www.youtube.com/results?search_query=freesciencelessons+biology+paper+2+)

[physicsandmathstutor.com](http://physicsandmathstutor.com)  
Biology Paper 1  
<https://www.physicsandmathstutor.com/past-papers/gcse-science/aqa-biology-1/>  
Biology Paper 2  
<https://www.physicsandmathstutor.com/past-papers/gcse-science/aqa-biology-2/>

## Useful Information

**Calculate**  
Students should use numbers given in the question to work out the answer.

**Compare**  
; OPZ YLX\PYLZ [OL Z[\KLU[ [V KLZJYPIL [OL ZPTPSHY  
not just write about one.

**Describe**  
Students may be asked to recall some facts, events or process in an accurate way.

**Design**  
Set out how something will be.

**Determine**  
Use given data or information to obtain an answer.

**Evaluate**  
Students should use the information supplied, as well as their knowledge and understanding, to consider evidence for and against when making a judgement.

**Explain**  
Students should make something clear, or state the reasons for something happening.

**Plan**  
Write a method.

**Suggest**  
This term is used in questions where students need to apply their knowledge to a new situation.



## Year 10

### Term 1

BIOLOGY TOPIC 1: CELL BIOLOGY

B1.1: Cell structure and transport

B1.2: Cell division

BIOLOGY TOPIC 2 - ORGANISATION

B2.1: Organisation and the digestive system

B2.2: Organising animals and plants.

### Term 2

BIOLOGY TOPIC 3: INFECTION AND RESPONSE

B3.1: Communicable diseases

B3.2: Preventing and treating disease.

B3.3: non-communicable diseases

BIOLOGY TOPIC 4 - BIOENERGETICS

B4.1: Photosynthesis

B4.2: Respiration

### Term 3

BIOLOGY TOPIC 5 - HOMEOSTASIS AND RESPONSE

B5.1: The human nervous system

## Year 11



# GCSE BIOLOGY (TRIPLE)

Paper 1 50% 8461/1 – H/F	Topics 1 -4 Cell biology Organisation Infection and response Bioenergetics.
Paper 2 50% 8461/2 – H/F	Topics 5-7: Homeostasis and response Inheritance, variation and evolution Ecology
Exam Board	AQA GCSE biology (8461)



## Useful Links/Resources

Malmesbury Education GCSE Biology Required Practicals

<https://www.youtube.com/playlist?list=PLAd0MSIZBSsHv1pioWRdg-pZCWTo84cdP>

BBC Bitesize

<https://www.bbc.co.uk/1/health/2015/10/1510356919gcse-biology-boards-1147-making-a-judgement-018007>

[physicsandmathstutor.com](https://www.physicsandmathstutor.com)

Biology Paper 1

<https://www.physicsandmathstutor.com/past-papers/gcse-biology/aqa-paper-1/>

Biology Paper 2

<https://www.physicsandmathstutor.com/past-papers/gcse-biology/aqa-paper-2/>

## Useful Information

Calculate

Students should use numbers given in the question to work out the answer.

Compare

OPZYLRYPDLXUVKYPILDLPTPSHYPPLEHUKYRLYLULLLPLUDDPNZ

not just write about one.

Describe

Students may be asked to recall some facts, events or process in an accurate way.

Design

Set out how something will be.

Determine

Use given data or information to obtain an answer.

Evaluate

Students should use the information supplied, as well as their knowledge and understanding, to consider evidence for and against when making a judgement.

Explain

Students should make something clear, or state the reasons for something happening.

Plan

Write a method.

Suggest

This term is used in questions where students need to apply their knowledge to a new situation.



# GCSE BIOLOGY (TRIPLE)

## Year 10

### Term 1

#### BIOLOGY TOPIC 1: CELL BIOLOGY

- B1.1: Cell structure and transport
- B1.2: Cell division

#### BIOLOGY TOPIC 2 - ORGANISATION

- B2.1: Organisation and the digestive system
- B2.2: Organising animals and plants.

### Term 2

#### BIOLOGY TOPIC 3: INFECTION AND RESPONSE

- B3.1: Communicable diseases
- B3.2: Preventing and treating disease.
- B3.3: non-communicable diseases

#### BIOLOGY TOPIC 4 - BIOENERGETICS

- B4.1: Photosynthesis
- B4.2: Respiration

### Term 3

#### BIOLOGY TOPIC 5 - HOMEOSTASIS AND RESPONSE

- B5.1: The human nervous system
- B5.2: Hormonal coordination
- B5.3: Homeostasis in action (TS)

## Year 11

### Term 1

#### BIOLOGY TOPIC 6: INHERITANCE, VARIATION AND EVOLUTION

- B6.1: Reproduction
- B6.2: Variation and evolution
- B6.3: Genetics and evolution

### Term 2

#### BIOLOGY TOPIC 7: ECOLOGY

- B7.1: Adaptations, interdependence, and competition
- B7.2: Organising an ecosystem.
- B7.3: Biodiversity and ecosystems

### Term 3

Exam practice and revision





Exam

AQA  
VBBM



### Useful Links/Resources

Malmesbury Education GCSE Chemistry Practicals

[0PWHSPB3K0AR27BR\\*](#)

BBC Bitesize

[0PPaW0QI](#)

Freesciencelessons

[0IPZHW](#)

[0VPU50BHSPZ](#)

[0IPZHW](#)

[0VPU50BHSPZ](#)

[revisionscience.com](#) - Chemistry

[0PVPULW0IPZ](#)



# GCSE CHEMISTRY (COMBINED)

Year 10	Year 11
<p><b>Term 1</b></p> <p>Unit 1 - Periodic table                      ORRHSRDIPEPHUPRPUVDRUWIPHSSEUWV                      OPDQHUTHRUVIPRPHSHUWIPHSVZ</p> <p>Unit 2 – Bonding, structure and the properties of matter                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      OPWURUBHPUOHVWDSOPUDX</p>	<p><b>Term 1 &amp; 2</b></p> <p>Unit 6 – The rate and extent of chemical change                      OPSDHPVWIPRHSZRNPNUMHPUOMHDIPIHSMVWV                      THUHPHSDHUIHUPRPHRUWIPHSWIPHSVZ                      THHSRSHUWIPRPHHSZRNPNUMHPUOMHDIPIHSMVWV                      PRPMOYHPTPDSMRV</p> <p>Unit 7 – Organic chemistry                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      OPWURUBHPUOHVWDSOPUDX</p> <p style="text-align: right;">OPZ</p> <p>branch of chemistry gets its name from the fact that the main sources of organic compounds are living, or                      WIPRPHSHUWIPRPHHSZRNPNUMHPUOMHDIPIHSMVWV</p>
<p><b>Term 2</b></p> <p>Unit 3 – Quantitative chemistry                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p>Unit 4 – chemical changes – part 1 reactivity of metals                      2UPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p style="text-align: right;">HPVZ</p> <p style="text-align: right;">UITHRPHSZUK</p>	<p><b>Term 2</b></p> <p>Unit 8 - Chemical analysis                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p>Unit 9 – Chemistry of the atmosphere                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p>Unit 10 - Using resources                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p style="text-align: right;">HW</p>
<p><b>Term 3</b></p> <p>Unit 4 – chemical changes – part 2 Reactions of acids and part 3 Electrolysis                      2UPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p>Unit 5 - Energy changes                      OIPRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      UHSRPHUURUHPUDWPHSHUWIPHSWITRPHSZ                      PSKIPHSVZ</p> <p style="text-align: right;">UITHRPHSZUK</p> <p style="text-align: right;">HRPUNUKVHPVWV</p>	<p><b>Term 3</b></p> <p>Exam practice and revision</p>



# GCSE CHEMISTRY (TRIPLE)

<p>Paper 1 50% 8462/1 – H/F</p>	<p>Topics 1 -5: Atomic structure and the periodic table Bonding, structure, and the properties of matter Quantitative chemistry Chemical changes Energy changes</p>
<p>Paper 2 50% 8462/2 – H/F</p>	<p>Topics 6-10: The rate and extent of chemical change Organic chemistry Chemical analysis Chemistry of the atmosphere Using resources</p>



## Useful Information

Periodic Table

[O&A&W&T&S&M&U&K&H&R&D&I&V&B&7&567+](#)

Calculate

[O&S&Y&E&I&J&P&U&D&E&V&R&D&H&U&E](#)

Compare

[O&P&E&D&D&P&T&P&S&H&P&P&E&U&R&M&D&P&U&D&E&P&H&M&L](#)

Describe

[O&I&T&H&E&R&M&S&S&V&M&H&D&A&S&R&O&P&D&E&O&S&V&O&P&U&M&S&S&L](#)

D2540048A4F005000Dc.3 0(D2540140054005A005B0050005600550003005B005600630048005

:[\KLU[Z ZO V\SK T+OL ZVT [OPUV jQ\SLPYD2540048A59005C00005A500

## Year 10

### Term 1

Unit 1 - Periodic table

ORRHSWOPPOHUPZPVMIDRUWOPHS  
BTLVOPOPDHUTHRZVWOPVHSHUOPHSW

Unit 2 – Bonding, structure and the properties of matter

Chemists use theories of structure and bonding to explain the physical and chemical properties

WVWBOVBOV

### Term 2

Unit 3 – Quantitative chemistry

OIPRPHPHUHSZPUPDMVSHVWVWUOPVZ  
MPVZHSZHUOPRPHPIOPUPDMOPHS  
ZTSZUPPOPSKVOIPHSMPVZ

Unit 4 – chemical changes – part 1 reactivity of metals

ZUPNPMOPHSOHUOHZHUOPUPZBUW

H\$OHU\$U\$K\$V\$U\$O\$P\$R\$U\$S\$M\$P\$K\$U\$N

MRVU\$U\$P\$M\$H\$O\$G\$R\$O\$O\$P\$R\$U\$

H\$OHU\$U\$K\$V\$U\$O\$P\$R\$U\$S\$M\$P\$K\$U\$N

MRVU\$U\$P\$M\$H\$O\$G\$R\$O\$O\$P\$R\$U\$

## Year 11







Year 10

Year 11

Term 1  
Energy

# CSE PHYSICS (TRIPLE)

r; and Atomic structure.

agnetism; and Space physics.



## Useful Information

Insert (Foundation; Higher) : equations sheet - June 2023 ([aqa.org.uk](https://www.aqa.org.uk))

Past Paper link

[https://www.aqa.org.uk/examinations/past-papers](#)

AQA GCSE Physics Past Papers - Revision Science

[https://www.aqa.org.uk/examinations/past-papers/physics](#)

[https://www.aqa.org.uk/examinations/past-papers/physics](#)

Wider reading

LabXchange

## Useful Links/Resources

Kerboodle

<https://www.kerboodle.com>

**BBC bitesize**

<https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm>

Malsbury Science examined practicals, for example:

[https://www.malsbury-science.com/practicals](#)

[https://www.malsbury-science.com/practicals](#)

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## Year 10

### Term 1

#### Energy

The concept of energy, energy transfers and conservation of energy. Limits to the use of fossil fuels and global warming make it necessary to identify ways to reduce our energy usage.

#### Electricity

microstructure of conductors, semiconductors and insulators makes it possible to design components and build electric circuits. Many circuits are powered with mains electricity, but portable electrical devices must use batteries of some kind.

### Term 2

#### Particle Model

applications in everyday life. Engineers use these principles when designing vessels to withstand high pressures and temperatures.

#### Atomic structure

ago, it took many nuclear physicists several decades to understand the structure of atoms, nuclear forces and stability.

### Term 3

#### Forces

Engineers analyse forces when designing a great variety of machines and instruments, from road bridges and fairground rides to atomic force microscopes.

#### Forces 2

Calculating mechanical value as acceleration and velocity, understanding forces and motion, alongside

## Year 11

### Term 1 and 2

#### Waves

to another and can also carry information. Modern technologies show how we can make the most of electromagnetic waves.

#### Magnets and electromagnetism

produce movement.

### Term 3

#### Space Physics

### Throughout Year 10 and 11

#### Practical Skills and revision

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