



Y11 Parent workshop

Science

Mrs Adams

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- Exam structure
- Teaching units
- Mock exams
- Support and resources

EXAM STRUCTURE

COMBINED SCIENCE TRILOGY AQA (8464)



May-23

Biology 1 Exam (1 hour 15 min)

Chemistry 1 Exam (1 hour 15 min)

Physics 1 Exam (1 hour 15 min)

Jun-23

Biology 2 Exam (1 hour 15 min)

Chemistry 2 Exam (1 hour 15 min)

Physics 2 Exam (1 hour 15 min)

Combined Science
2 GCSE Science
grades awarded
grade 1-9

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EXAM STRUCTURE SEPARATE SCIENCES-
AQA BIOLOGY (8461)
AQA CHEMISTRY (8462)
AQA PHYSICS (8463)



May 2023

Biology 1 Exam (1 hour 45 min)

June 2023

Biology 2 Exam (1 hour 45 min)

GCSE BIOLOGY Grade 9-1

May 2023

Chemistry 1 Exam (1 hour 45 min)

June 2023

Chemistry 2 Exam (1 hour 45 min)

GCSE CHEMISTRY Grade 9-1

May 2023

Physics 1 Exam (1 hour 45 min)

June 2023

Physics 2 Exam (1 hour 45 min)

GCSE PHYSICS Grade 9-1

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Teaching units/ Mock exams



Y10 content	Y10 Biology Topics	Y10 Chemistry Topics	Y10 Physics Topics
	B1: Cell biology B2: Plant biology B3: Human biology B4: Microbiology	C1: Atomic structure and Periodic table C2: Bonding C3: Chemical structures and reactions C4: Chemical changes C5: Energy changes	P1: Energy P2: Particles P3: States of matter P4: Forces
Y11 Content	Y11 Biology Topics B5: Homeostasis and response B6: Inheritance, variation and evolution B7: Ecology	Y11 Chemistry Topics C6: The mole C7: Organic chemistry C8: Chemical analysis C9: Chemistry of the atmosphere C10: Using resources	Y11 Physics Topics P5: Electricity P6: Magnetism and electromagnetism P7: Waves

Students have already completed these 3 units

This is the content for the next mock exam, which will be in November.

Biology paper 2

What will be on the exam?

There are 3 teaching units on this exam. They are listed below. You will also need a good understanding of the required practicals covered in the Biology Paper 2 exam.

**WE WANT TO HELP YOU TAKE CONTROL OF YOUR REVISION
AND LEARN HOW TO DO IT WELL.**

**PRACTISING EXAM PREPARATION MEANS YOU CAN
FEEL IN CONTROL OF THE EXAM.
THERE IS NO NEED TO PANIC IF YOU ARE WELL PREPARED!!**



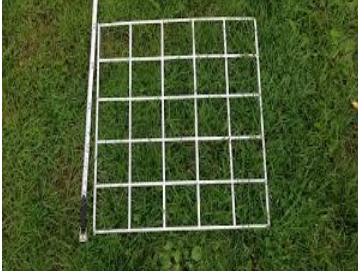







BIOLOGY PAPER 2- TOPICS ON THE EXAM
B5: Homeostasis and response
B6: Inheritance, variation and evolution
B7: Ecology

REQUIRED PRACTICALS LINKED TO THIS EXAM:

15% of the marks!

- Reaction time
- Plant responses (Triple only)
- Field investigations
- Decay (Triple only)

BIOLOGY PAPER 2 REQUIRED PRACTICALS- 15%

Required Practical	Image reminder	QR code to video of the practical
Field investigations		
Reaction times		
Plant responses (triple only)		
Decay (triple only)		

Revision Advice

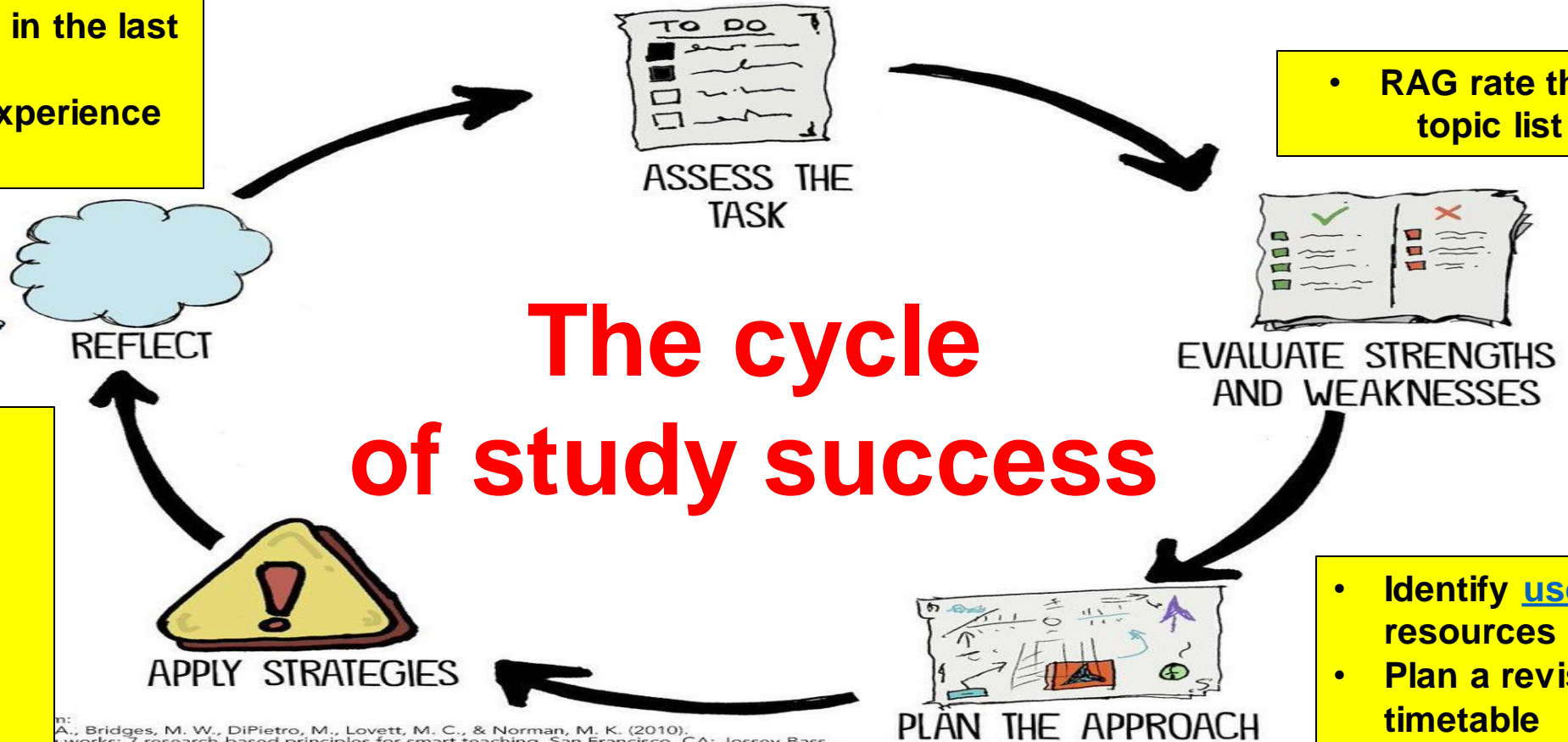


- What went well in the last mock?
- What did not go well in the last mock?
- How can I use this experience to get better?

- When is the next mock?
- What is the next mock about?

- RAG rate the topic list

- Try using apps, revision guides, flash cards and youtube revision channels.
- Test yourself with quizzes and past paper questions



Adapted from: A. Bridges, M. W., DiPietro, M., Lovett, M. C., & Norman, M. K. (2010). *Classroom assessment techniques: 7 research-based principles for smart teaching*. San Francisco, CA: Jossey-Bass.

Reflect- How have you prepared for previous mock exams and tests? What worked well/ what didn't work well?



“ I find
that the
harder I work,
the
more luck
I seem
to have ”
- Thomas Jefferson



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Assess the task- when is the exam?



**Paper 2 Biology mock,
November 2022**

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Evaluate strengths and weaknesses

Biology 2 - Trilogy		RAG
Homeostasis and response		
Importance of homeostasis		Green
Structure and function of the nervous system		Green
★ Required practical – reaction time		Yellow
Human endocrine system		Red
Control of blood glucose concentration		Red
Hormones in the human reproductive system		Yellow
Contraception		Green
The use of hormones to treat fertility HT		
Negative feedback HT		Yellow
Inheritance, variation and evolution		
Sexual and asexual reproduction		Green
Meiosis		Green
DNA and the genome		Green
Genetic inheritance		Green
Inherited disorders		Green
Sex determination		Green
Variation		Green
Evolution		Green
Selective breeding		Green
Genetic engineering		Green
Evidence for evolution		Green
Fossils		Green
Extinction		Red
Resistant bacteria		Red
Classification		Red

Get in control. What don't you know.... Prioritise revising things you are less confident about!

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HT Combined Biology Paper 2

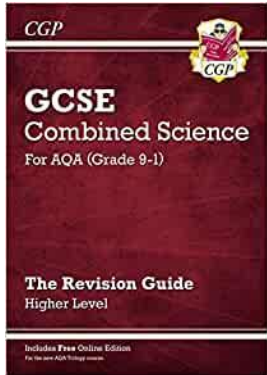
	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE
Homeostasis and response					
4.5.1	Importance of homeostasis		57	58	65
4.5.2	Structure and function of the nervous system		58-9	59-60	66-67
RP 6	★ Required practical – reaction time		60	61	68
4.5.3.1	Human endocrine system		61	62	73
4.5.3.2	Control of blood glucose concentration		62	63	74
4.5.3.3	Hormones in the reproductive system		63	64	77
4.5.3.4	Contraception		64-65	65-66	78
4.5.3.5	The use of hormones to treat fertility HT			66	79
4.5.3.6	Negative feedback HT			67	80
Inheritance, variation and evolution					
4.6.1.1	Sexual and asexual reproduction		67	69	87
4.6.1.2	Meiosis		68	70	88
4.6.1.3	DNA and the genome		66	68	84
4.6.1.4	Genetic inheritance		70	72-3	91-2
4.6.1.5	Inherited disorders		71-2	74	93
4.6.1.6	Sex determination		69	71	90
4.6.2.1	Variation		73	75	94-5
4.6.2.2	Evolution		74-6	76	96
4.6.2.3	Selective breeding		77	77	98
4.6.2.4	Genetic engineering		78	78	99
4.6.3.1	Evidence for evolution		79	79	101
4.6.3.2	Fossils		79	79	101
4.6.3.3	Extinction		74	76	96
4.6.3.4	Resistant bacteria		75-76	80	103
4.6.4	Classification		80-81	81	104

	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE
Ecology					
4.7.1.1	Communities		83	83	106
RP 7	★Required practical – field investigations		87-88	87-88	110-111
4.7.1.2	Abiotic factors		84	84	107
4.7.1.3	Biotic factors		84	84	107
4.7.1.4	Adaptations		85	85	108
4.7.2.1	Levels of organisation		86	86	109
4.7.2.2	Carbon cycle		90	90	113
4.7.2.2	Water cycle		89	89	112
4.7.2.2	Decomposition		90	90	114
4.7.3.1	Biodiversity		91	91	116
4.7.3.2	Waste management		91	91	116
4.7.3.3	Land use		93	93	118
4.7.3.4	Deforestation		93	93	118
4.7.3.5	Global warming		92	92	117
4.7.3.6	Maintaining biodiversity		94	94	119

Identify useful resources



Revision guides/ APPs



AQA specifications- (this is the Science we have to teach)



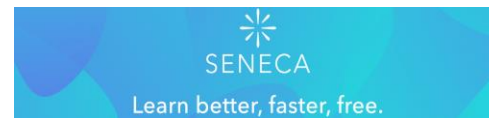
Primrose Kitten/ Free science lessons online tutorials



Seneca set tasks/ independent study

Weekly Science homework is set on Seneca, an online learning platform that provides videos, information and quiz questions relevant to the course we follow.

Students create their own account and "join" their class using the class code their teacher provides. If pupils forget their password they can reset it using the password reset link on the log in page



Cognito

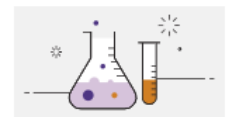
www.cognitoresources.org
An excellent website that gives quick access to past papers, mark schemes, specific topic questions and excellent video clips



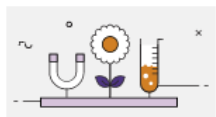
BBC bitesize



Biology (Single

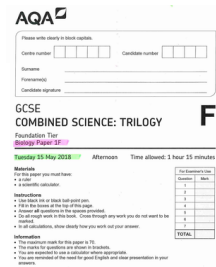


Chemistry (Single Science)

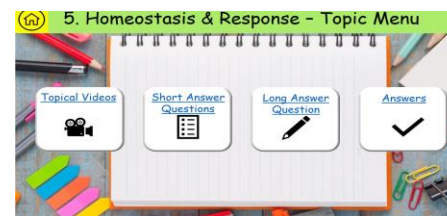


Combined Science

AQA past papers- these can be found on the AQA website in "assessment"



TEAMS – We have uploaded quizzes/ all in one revision PowerPoints- with video links and past paper questions & answers.



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[Cognito Resources - Past Papers, Mark Schemes and Resources](#)

This is an excellent website for access to videos, topic linked questions and past papers with mark schemes.

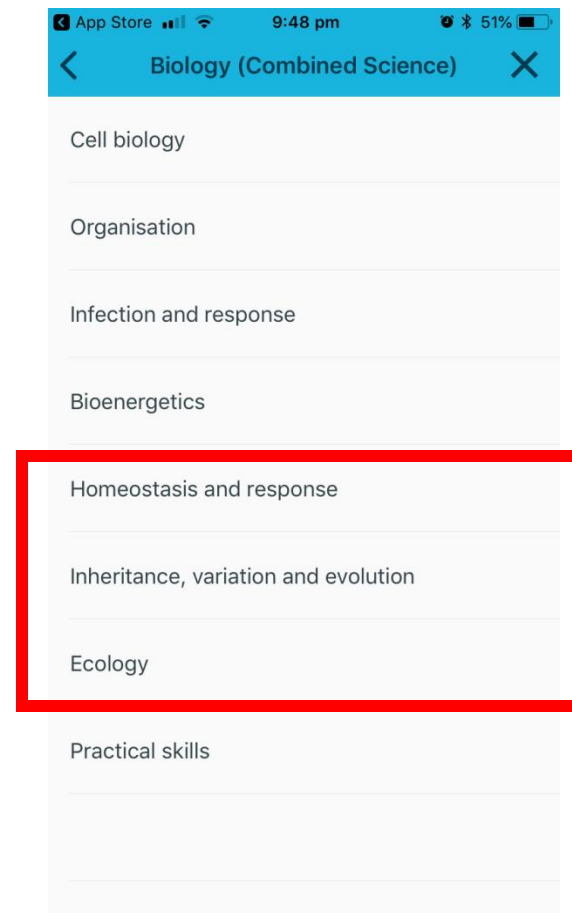
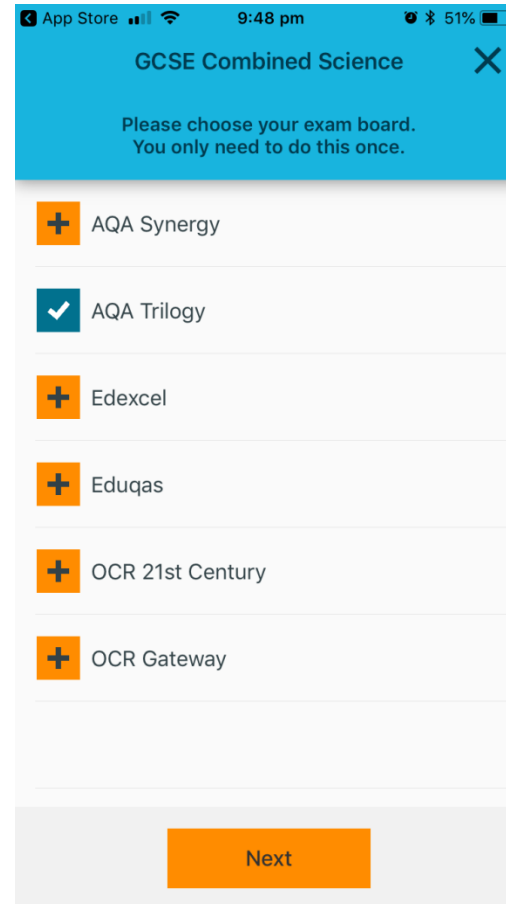
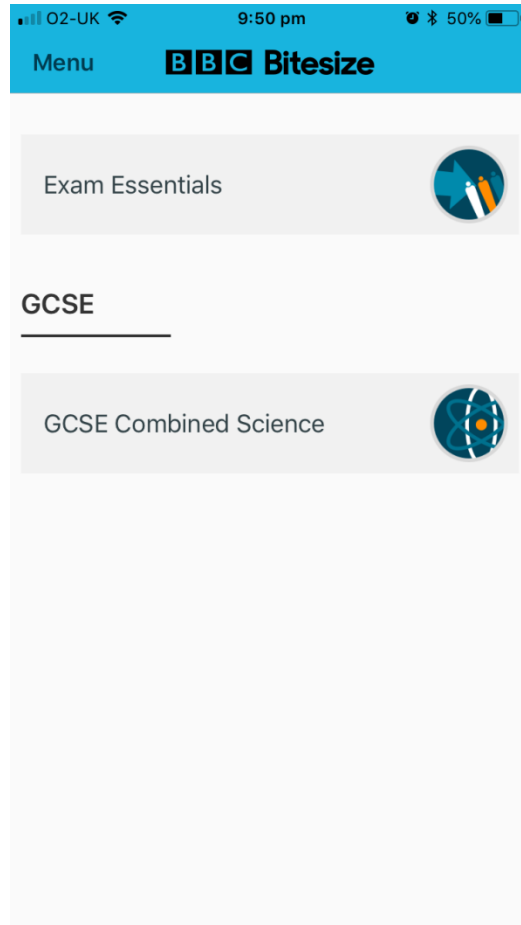
[Past Papers](#) ▾[Exam Qs by Topic](#) ▾[Videos](#) ▾[About Us](#)[YouTube](#)

Welcome to Cognito Resources

We have all the past papers that we could find, so select what you're looking for below to get started!

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BBC Bitesize APP



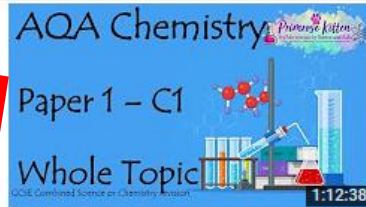
You tube Revision

<https://www.youtube.com/channel/UCBgvmal8AR4QIK2e0EfJwaA/featured>



primrose kitten

These videos are an excellent way of identifying what to spend more time revising. The paper 1 videos are for Y10 work. There are also videos for the paper 2 subjects from Y11



The whole of AQA Chemistry Paper 1 or C1 in only 72 minutes!! GCSE 9-1 Science Revision

Science and Maths by Primrose Kitten
4 months ago • 38,733 views
This is for C1 or paper 1 of your AQA GCSE 9-1 chemistry, covering combined and separate science. These videos are a revision

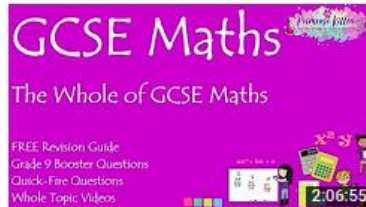
SUBTITLES



The whole of AQA Biology Paper 1 in only 63 minutes!! GCSE 9-1 Science revision

Science and Maths by Primrose Kitten
2 months ago • 30,806 views
These videos are a revision summary for your 9-1 GCSE science, covering biology, chemistry and physics. To get all the quick-fire

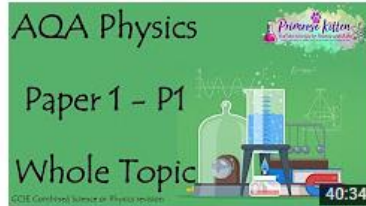
SUBTITLES



The whole of GCSE 9-1 Maths in only 2 hours!! Higher and Foundation Revision for Edexcel, AQA ...

Science and Maths by Primrose Kitten
10 months ago • 167,691 views
I want to help you achieve the grades you (and I) know you are capable of, these grades are the stepping stone to your future. Even

SUBTITLES



The whole of AQA Physics Paper 1 in only 40 minutes!! GCSE 9-1 Revision

Science and Maths by Primrose Kitten
5 months ago • 44,272 views
Revision for P1 or paper 1 of your GCSE physics, for 9-1 combined or separate science. To get all the quick-fire questions,

SUBTITLES

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For more specific detail on a topic, free science lessons is an excellent source of



- <http://freesciencelessons.co.uk/>

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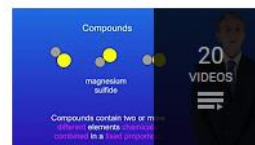
need.

<http://www.aqa.org.uk/subje.....>

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<http://www.aqa.org.uk/subje.....>

9-1 Chemistry Paper 1



9-1 GCSE Chemistry Paper 1 Atomic Structure and the Periodic Table

Freesciencelessons

GCSE Chemistry (9-1) Elements, Compounds... 4:03

GCSE Chemistry (9-1) Interpreting a chemical... 3:41

View full playlist (20 videos)



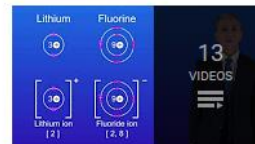
9-1 GCSE Chemistry Paper 1 Energetics

Freesciencelessons

GCSE Chemistry (9-1) Exothermic and Endoth... 4:14

GCSE Chemistry (9-1) Bond Energy Calculatio... 4:01

View full playlist (5 videos)



9-1 GCSE Chemistry Paper 1 Structure and Bonding

Freesciencelessons

GCSE Chemistry (9-1) Ionic Bonding 1 4:24

GCSE Chemistry (9-1) Ionic Bonding 2 3:10

View full playlist (13 videos)



9-1 GCSE Chemistry Paper 1 Chemical Reactions

Freesciencelessons

GCSE Chemistry (9-1) Reaction of Metals wit... 3:27

GCSE Chemistry (9-1) The Reactivity Series 4:34

View full playlist (17 videos)



9-1 GCSE Chemistry Paper 1 Quantitative Chemistry

Freesciencelessons

GCSE Chemistry (9-1) Conservation of Mass 4:16

GCSE Chemistry (9-1) Charges on Ions 4:12

View full playlist (22 videos)

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Identify useful resources- Plan a revision timetable



REVISION TIMETABLE



TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
9AM							
10AM							
11AM							
12PM							
1PM							
2PM							
3PM							
4PM							
5PM							
6PM							

Edit assignment

Title (required)

B2 Exam Revision KAP


 Add category


Instructions

Please use these resources to support your revision for the Biology Paper 2 exam. Included in this assignment you will find:

1. A general revision advice PowerPoint with dates, tips and internet video links.
2. RAG sheets for your to self assess your understanding of the topics in the exam, and direct you to page numbers from your revision guide for areas of weakness
3. A PowerPoint that includes short videos for each topic and past exam paper questions with answers.

Please ask your teachers for any additional help/ support necessary.

 BIOLOGY PAPER 2 Check lists-with revision guide page numbers.doc
Students can't edit .doc files

 B2 Mock revision advice.pptx
Students can't edit

Making a revision time table can make breaking down the challenge of revising easier.

The idea is to plan time wisely so that the time spent revising is effective.

We provide resources on TEAMS to support revision

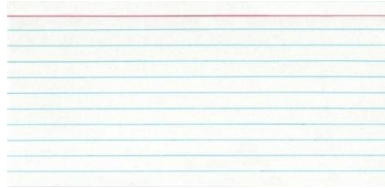
We always encourage planning in time for breaks, snacks, socialising and plenty of sleep!

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Apply Strategies



Making note cards- test yourself



Planning out key ideas on mind maps



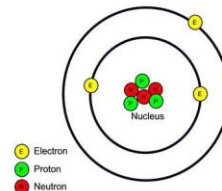
Answering & marking exam style questions



Summarising key points



Drawing out diagrams and practise labelling them



Make lists- I need to remember 3 stages of.....



Make a poster- include different colours, diagrams and information



Highlight parts of your revision guide.



Revise with a friend and test each other on facts from the specification.

