Yr 7 Autumn Term 1

Time of Assessment WK 9

Knowledge to be Assessed:

7A Cells:

Organs and their functions.

How to use a microscope

Preparing cell slides

Structure of Plant and animal cells

Specialised cells

Basic cell division

Organ systems

Water loss by leaves

7E Acids and Alkalis:

What are Acid and Alkalis?

What is a Hazard

Indicators

Neutralisation

7I Energy:

Energy and Fuels

Bunsen burners

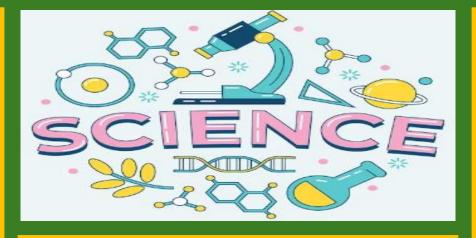
Fossil Fuels

Other Energy resources

Solar Energy

Energy in food

Where does energy come from?



Skills to be assessed

Working scientifically

Through the content across all three disciplines, pupils will be taught to:
Scientific attitudes

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
- Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review

 evaluate risks.

Resources to help Revision:

-Students should check their Science TEAM

-Also click on links below:

KS3 Biology BBC Bitesize

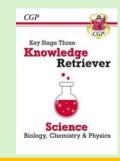
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Yr 7 Spring Term 1

Time of Assessment WK 17/18

Knowledge to be Assessed:

7B Reproduction:

Different types of reproduction Internal & External Fertilisation

Human reproduction

Pregnancy

Giving birth

Life Cycle - Adolescence

7G Solids, Liquids & Gases

What is a theory

Particle theory

Diffusion

Recyling materials

7J Electricity

Types of Circuits

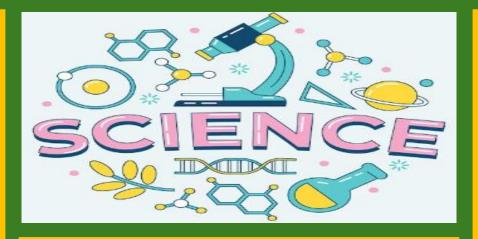
Conduction & Insulators

Electric currents

Resistance

Energy & Voltage

Electrical Saftey & Fuses



Skills to be assessed

Working scientifically

Through the content across all three disciplines, pupils will be taught to:

Scientific attitudes

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
 - Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review evaluate risks.

Resources to help Revision:

-Students should check their Science TEAM

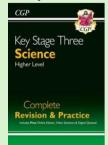
-Also click on links below:

KS3 Biology BBC Bitesize

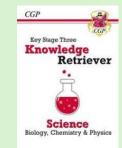
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Yr 7 Summer Term 1

Time of Assessment WK 25

Knowledge to be Assessed:

7D Classification:

Variation in animal & Plants

Causes of variation

Classifying living things

7F Chemical reactions:

Types of chemical reactions

Causes of chemical reactions

Collecting gases

Testing for gases

Combustion

7K Forces:

Forces in action

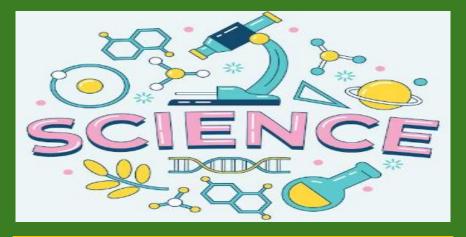
Mass v Weight

Balanced and unbalanced forces

Floating and sinking

Friction

Speed - distance-time graphs



Skills to be assessed

Working scientifically

Through the content across all three disciplines, pupils will be taught to:

Scientific attitudes

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
 - Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review

 evaluate risks.

Resources to help Revision:

-Students should check their Science TEAM

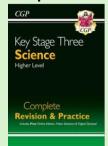
-Also click on links below:

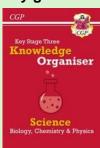
KS3 Biology BBC Bitesize

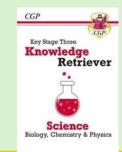
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Yr 8 Autunm Term 1

Time of Assessment Wk 8

Knowledge to be Assessed:

8A Food and Digestion

Food labels

Food Tests

Balanced Diet

Diabetes

Digestive system

Digestion & absorption

8F Atoms and Elements

Material

Elements

Periodic Table

Naming compounds

Recycling materials

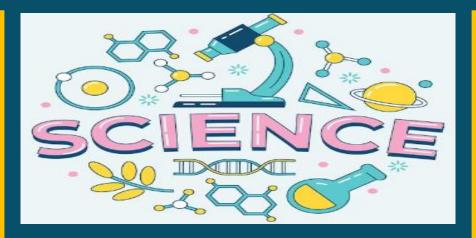
8J Forces & Magnetisim

Drag and Streamlining

Pressure

Magnets

Electromagnets



Skills to be assessed:

Working scientifically

Through the content across all three disciplines, pupils will be taught to:

Scientific attitudes

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
- Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review

-Analysis and evaluation skills

- present observations and data using appropriate methods, including tables and graphs

Resources to help Revision:

-Students should check their Science TEAM

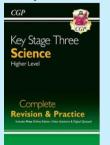
-Also click on links below:

KS3 Biology BBC Bitesize

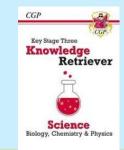
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Yr 8 Autunm Term 1

Time of Assessment WK 14

Knowledge to be Assessed:

8B Respiration

Food & Oxygen

Burning

Circulatory system

Aerobic & anaerobic respiration

Gas exchange

Structure of Lungs

8G Metals

Metals & non-metals

Properties of metals

Physical and Chemical reactions

Mixtures and compounds

Alloys

8K Light

Light spectrum

Speed of Light

Reflection

Lenses

Refraction

Transmitting Colour



Skills to be assessed:

Working scientifically

Through the content across all three disciplines, pupils will be taught to:

Scientific attitudes

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
- Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review
 - -Analysis and evaluation skills
- present observations and data using appropriate methods, including tables and

Resources to help Revision:

-Students should check their Science TEAM

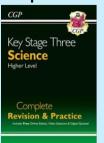
-Also click on links below:

KS3 Biology BBC Bitesize

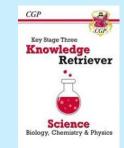
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Yr 8 Summer Term 1

Time of Assessment WK 22

Knowledge to be Assessed:

8C Microbes and Disease

Types of microbes

Useful Microbes

Growing bacteria

Pathogens

Spread of disease

Vaccines

Antibiotics

8H Rocks

Sedimentary rocks

Igneous rocks

Crystal size

Density of minerals

Metamorphic rocks

Rock cycle

8I Energy & Electricity

Energy Transfer Diagrams

Energy Resources

Currant and Voltage

What is Electricity

Power Appliances



Skills to be assessed:

Working scientifically

Through the content across all three disciplines, pupils will be taught to:

- Pay attention to objectivity and concern for accuracy, precision, repeatability, and reproducibility
- Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review
 - -Analysis and evaluation skills
- present observations and data using appropriate methods, including tables and graphs

Resources to help Revision:

-Students should check their Science TEAM

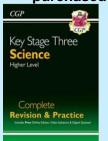
-Also click on links below:

KS3 Biology BBC Bitesize

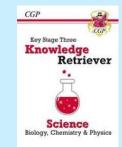
KS3 Chemistry BBC Bitesize

KS3 Physics BBC Bitesize

-CGP KS3 Science revision books can be purchased at any good online bookstore.







Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Subject Science – Biology

Yr 9 Autumn Term 1

Time of Assessment Rotation 1 – Date TBC

Knowledge to be Assessed:

CB1	Key Concepts in Biology (Paper 1 and Paper 2)
CB1a	Microscopes
CB1b	Plant and animal cells
CB1b	Core practical - Using microscopes
CB1c	Specialised cells
CB1d	Inside bacteria
CB1e	Enzymes and nutrition
CB1f	Enzyme action
CB1g	Enzyme activity
CB1g	Core practical - pH and enzymes
CB1h	Transporting substances
CB1h	Core practical - Osmosis in potato slices

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

There us a detailed revision list for this unit here: https://tinyurl.com/hkn2f6z6

Resources to help Revision:

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

https://www.bbc.co.uk/bitesize/topics/zy9ww6f

Students should also check the MS Team for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Revision guides are also available to purchase through school

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 24% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 39% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 62% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 63% and 84% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 85% of content.

Subject Science – Biology

Yr 9 Spring Term 1

Time of Assessment Rotation 2 – Date TBC

Knowledge to be Assessed:

CB2	Cells and Control (Paper 1)
CB2a	Mitosis
CB2b	Growth in animals
CB2c	Growth in plants
CB2d	Stem cells
CB2e	The nervous system
CB2f	Neurotransmission speeds
CB2	Preparing for your exams
СВЗ	Genetics (Paper 1)
CB3 CB3a	Genetics (Paper 1) Meiosis
CB3a	Meiosis
CB3a CB3bi	Meiosis DNA
CB3a CB3bi CB3bii	Meiosis DNA DNA extraction
CB3a CB3bii CB3bii CB3c	Meiosis DNA DNA extraction Alleles

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

B2 Detailed Revision Checklist

https://tinyurl.com/2s4h286n

B3 Detailed Revision Checklist

https://tinyurl.com/yd2r3btt

Resources to help Revision:

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

https://www.bbc.co.uk/bitesize/topics/zpg

https://www.bbc.co.uk/bitesize/topics/zxy ggdm

Students should also check the MS Team for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Revision guides are also available to purchase through school

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 19% of content.	Students show partial science knowledge. Students demonstrate an understanding between 20% and 30% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 31% and 51% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 52% and 84% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 85% of content.

Subject Science – Chemistry

Yr 9 Autumn Term 1

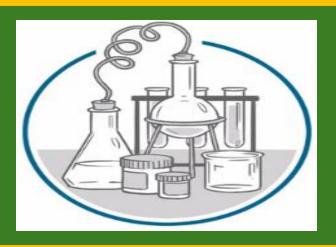
Time of Assessment Rotation 1 – Date TBC

Knowledge to be Assessed:

CC1 CC2	States of Matter Methods of Separating and Purifying Substances (Paper 3)
CC1a	States of matter
CC2a	Mixtures
CC2b	Filtration and crystallisation
CC2c	Paper chromatography
CC2d	Distillation
CC2d	Core practical – Investigating inks
CC2e	Drinking water

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

CC1/CC2 Detailed Revision Checklist

https://tinyurl.com/39uyren4

Resources to help Revision:

There are detailed notes, videos and 'test yourself' activities from BBC Bitesize at these links:

States of Matter and Mixtures

https://www.bbc.co.uk/bitesize/topics/z9766yc

This link provides sample exam questions with answers and explanations:

https://www.bbc.co.uk/bitesize/guides/z33smsg/revision/1

Students can access lesson slides and further revision material through MS

Teams. Additionally, they have access to the Active Learn platform where they can use an

electronic copy of the course textbook

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students score 1-7 marks out of 35.	Students show partial science knowledge. Students score 8-11 marks out of 35.	Students show secure science knowledge. Students score 12-19 marks out of 35.	Students show very good Science knowledge. Students score 20-26 marks out of 35.	Students show comprehensive science knowledge. Students score more than 27 marks out of 35.

Subject Science – Chemistry

Yr 9 Autumn Term 1

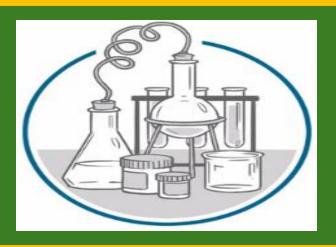
Time of Assessment Rotation 2 – Date TBC

Knowledge to be Assessed:

CC3	Atomic Structure (Paper 3 and Paper 4)
CC3a CC3b	Structure of an atom Atomic number and mass number
CC3c	Isotopes
CC4	The Periodic Table (Paper 3 and Paper 4)
CC4a	Elements and the periodic table
CC4b	Atomic number and the periodic table
CC4c	Electronic configurations and the periodic table

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



CC3 Detailed Revision Checklist

https://tinyurl.com/2z76b2nc

CC4 Detailed Revision Checklist

https://tinyurl.com/d5y6ajhz

Resources to help Revision:

There are detailed notes, videos and 'test yourself' activities from BBC Bitesize at these links:

Atomic Structure

https://www.bbc.co.uk/bitesize/guides/zqgm8mn/revision/1

The Periodic Table

https://www.bbc.co.uk/bitesize/guides/z36cfcw/revision/1

Students can access lesson slides and further revision material through MS

Teams. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students score 1-8 marks out of 35.	Students show partial science knowledge. Students score 9-12 marks out of 35.	Students show secure science knowledge. Students score 13-20 marks out of 35.	Students show very good Science knowledge. Students score 21-29 marks out of 35.	Students show comprehensive science knowledge. Students score more than 30 marks out of 35.

Subject Science – Physics

Yr 9 Assessment 1

Time of Assessment:

TBC depending on timetabling rotations

Knowledge to be Assessed:

CP3	Conservation of Energy (Paper 5)				
CP3a	Energy stores and transfers				
CP3b	Energy efficiency				
CP3c	Keeping warm				
CP3d	Stored energies				
CP3e	Non-renewable resources				
CP3f	Renewable resources				

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

There us a detailed revision list for this unit here: https://tinyurl.com/5n7sf4yb

Resources to help Revision:

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

https://www.bbc.co.uk/bitesize/guides/zxpwrwx/revision/1

https://www.bbc.co.uk/bitesize/guides/zsb6w6f/revision/1

https://www.bbc.co.uk/bitesize/guides/zty2k2p/revision/1

This link provides sample exam questions with answers and explanations:

https://www.bbc.co.uk/bitesize/guides/zmwyy4j/revision/1

Students should also check the MS Team for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Subject Science – Physics

Yr 9 Assessment 2

Time of Assessment:

TBC depending on timetabling rotations

Knowledge to be Assessed:

CP1	Motion (Paper 5)
CP1a	Vectors and scalars
CP1b	Distance/time graphs
CP1c	Acceleration
CP1d	Velocity/time graphs

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

There us a detailed revision list for this unit here: https://tinyurl.com/2a9xutd8

Resources to help Revision:

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

https://www.bbc.co.uk/bitesize/guides/zgcp7p3/revision/1

https://www.bbc.co.uk/bitesize/guides/z2x9v9q/revision/1

This link provides sample exam questions with answers and explanations:

https://www.bbc.co.uk/bitesize/guides/ztcrsrd/revision/1

Students should also check the MS Team for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

Subject Science – Physics

Yr 9 Assessment 3

Time of Assessment:

TBC depending on timetabling rotations

Knowledge to be Assessed:

CP2	Motion and Forces (Paper 5)
CP2a	Resultant forces
CP2b	Newton's First Law
CP2c	Mass and weight
CP2d	Newton's Second Law
CP2d	Core practical – Investigating acceleration
CP2e	Newton's Third Law
CP2f	Momentum
CP2g	Stopping distances
CP2h	Crash hazards

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



Skills to be assessed:

There us a detailed revision list for this unit

here: https://tinyurl.com/4jnfe4xm

Resources to help Revision:

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

https://www.bbc.co.uk/bitesize/guides/z3rhqhv/revision/1

https://www.bbc.co.uk/bitesize/guides/zg9smsg/revision/1

https://www.bbc.co.uk/bitesize/guides/zxh2qhv/revision/1

This link provides sample exam questions with answers and explanations:

https://www.bbc.co.uk/bitesize/guides/ztcrsrd/revision/1

Students should also check the MS Team for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.