



PUTTING THE FUN BACK
INTO LEARNING!

Dear Parents and Guardians,

Welcome to the Science March Curriculum Guide.

Curriculum content

Key Stage 3: 2014 English National Curriculum Science

Grade 6:

This month, students in Grade 6 will study the Chemistry topic 'Acids and Alkalis'.

Topic	Key words
Hazardous or safe?	Acid, alkali, caution, corrosive, diluted, explosive, flammable, hazard, irritant, toxic
Indicators, acids and alkalis	Indicator, neutral,
The pH Scale	pH scale, dependent variable, independent variable
Neutralisation	Chemical reaction, neutralization, products, reactants, salt, word equation
Neutralization in everyday life	Antacid, base

Grade 7:

This month, students in Grade 7 will study the Physics topic 'Energy Changes'.

Topic	Key word
Temperature changes	Degrees Celsius, evaporate, internal energy, joule, temperature, thermal energy
Transferring energy	Absorb, conduction, convection, convection current, density, emit, fluid, infrared radiation, medium, radiation, reflect, thermal conductor, thermal imager, thermal insulator.
Controlling energy transfers	Solar cell, solar panel
Power and efficiency	Appliance, efficiency, kilowatt, power, power rating, Sankey diagram, watt
Keeping warm	Climate change, fossil fuel

Edexcel IGCSE

In order to improve outcomes at IGCSE we have formalised the system of an extended three year KS4 in Science and IGCSE courses are now being followed by Grades 8, 9 and 10

For your information we have included hyperlinks to the relevant part of the specification in the details below.

For further details regarding the IGCSE syllabus and keywords for each course please follow the link below each section.

Grade 8

Students in Grade 8 are following aspects of the IGCSE Edexcel Physics, Chemistry and Biology courses. In March they will be covering the first Physics unit.

Physics:

Forces and motion

- a) Forces, movement, shape and momentum

<http://qualifications.pearson.com/content/dam/pdf/International%20GCSE/Physics/2017/specification-and-sample-assessments/IGCSE-Physics-2017-specification.pdf>

Grade 9

Grade 9 Physics (Only):

Electricity

- a) Units
- b) Mains electricity
- c) Energy and potential difference in circuits
- d) Electric charge

Grade 9 Physics & Chemistry (Separate science):

Physics Unit:

Waves

- a) Units
- b) Properties of waves
- c) The electromagnetic spectrum
- d) Light and sound

<https://qualifications.pearson.com/en/qualifications/edexcel-international-gcse-and-edexcel-certificates/international-gcse-physics-2017.html>

Chemistry Unit:

Principles of chemistry

- c) Atomic structure

<https://qualifications.pearson.com/content/dam/pdf/International%20GCSE/Chemistry/2017/specification-and-sample-assessments/IGCSE-Chemistry-2017-specification.pdf>

Grade 9 Biology (option):

Biology Unit:

Structure and functions in living organisms

- a) Transport in *humans*.

<https://qualifications.pearson.com/content/dam/pdf/International%20GCSE/Biology/2017/specification-and-sample-assessments/IGCSE-Biology-2017-specification.pdf>

Grade 10

Grade 10 Biology (Only):

Students finished the Biology course in January and will be revising and preparing for the exam from now on.

<http://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcse-biology-2011.html>

Grade 10 Chemistry & Biology (Separate Science)

Chemistry:

Students have finished the Chemistry course and are now revising through the content.

Biology Unit:

Students have finished the Biology course and are now revising through the content.

<http://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcse-biology-2011.html>

Grade 10 Physics (Option)

Magnetism and electromagnetism

- a) Units
- b) Magnetism
- c) Electromagnetism
- e) Electromagnetic induction

Radioactivity and particles

- a) Units
- b) Radioactivity
- c) Particles

<http://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcse-physics-2011.html>

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Thank you for your continued support,

Science department