



PUTTING THE FUN BACK  
INTO LEARNING!

Dear Parents and Guardians,

On behalf of the Science Department, I wish to welcome back our students from their half-term break.

### Curriculum content for November

#### Key Stage 3: 2014 English National Curriculum Science

##### Grade 6:

This month, students in Grade 6 will complete the Chemistry topic 'Mixtures and separation' and will then move onto the Physics topic 'Forces'

Topic	Key words
Different forces	Air resistance, contact forces, friction, gram, gravity, kilogram, magnetism, mass, newton, non-contact force, static electricity, upthrust, water resistance, weight
Springs	Compress, elastic, elastic limit, extension, force meter, Hooke's law, limit of proportionality, plastic, proportional, spring, stretch
Friction	Lubricant, lubrication
Pressure	Pascal, pressure
Balanced forces	Balanced forces, stationary, unbalanced forces

##### Grade 7:

This month, students in Grade 7 will complete the Chemistry topic 'The Periodic table' and will then move onto the Physics topic 'Light'

Topic	Key word
Seeing things	Absorb, image, longitudinal wave, matter, opaque, ray, reflect, shadow, source, translucent, transmit, transparent, transverse wave, vacuum
Reflection	Angle of incidence, angle of reflection, convention, incident ray, normal, plane mirror, raybox, ray diagram
Refraction	Angle of refraction, converging lens, focal length, focal point, interface, lens, refraction
Cameras and eyes	Aperture, cone cell, cornea, digital camera, iris, optic nerve, primary colour, pupil, retina, rod cell, secondary colour, sensor, shutter
Colour	Dispersion, filter, frequency, prism, spectrum, white light

## **Edexcel IGCSE**

In order to improve outcomes at IGCSE we have formalized the system of an extended three year KS4 in Science and I GCSE 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 and 9 Biology:**

Students in grade 8 and 9 are following the IGCSE Edexcel courses.

#### **Structures and functions in living organisms.**

- Movement of substances into and out of cells
- Nutrition
- Respiration
- Gas exchange in plants and humans

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

### **Grade 9 Physics:**

#### **Forces and motion.**

- Momentum
- Safety and collisions
- Stopping distance
- Hooke's law
- Moments

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

### **Grade 10 - Biology:**

Students have just completed **Section 3: Reproduction and inheritance** and will be starting

#### **Ecosystems and the environment.**

- Organisms in the environment
- Feeding relationships
- Nitrogen cycle
- Carbon cycle
- Water cycle

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

## **Grade 10 Chemistry**

Students have just completed **Organic chemistry** and will be starting **Physical Chemistry: Energetics**

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

## **Grade 10 Physics**

Students will continue working through **Forces and motion** and then move onto **Astronomy**.

### **Forces and motion.**

- Momentum
- Safety and collisions
- Stopping distance
- Hooke's law
- Moments

### **Astronomy**

- Gravitational field strength
- Gravitational force
- Orbital speed
- Comets, moons and planets

<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**