



PUTTING THE FUN BACK
INTO LEARNING!

Dear Parents and Guardians,

On behalf of the Science team, we would like to welcome you back to the Science Curriculum Guide. Last Month, we ran a Science Exhibition for the whole school to showcase all the fantastic and innovative work Grade 6 students have been doing regarding Renewable Energy and Sustainability. Students have worked so hard for their projects, and were awarded Science Achievement Certificates to celebrate this. Thank you to Ms Rabeya who organised the exhibition and to all the classes who took part! We look forward to many more exciting projects in the future and will be sure to keep you all posted!



Curriculum Content for May

Please see below for more information on what students will be covering this month.

Grade 6:

Topics	Keywords
Explaining Concentration And Pressure, Conserving Mass.	Concentration, Concentrated, Dilute, Pressure, Law Of Conservation Of Mass, Chemical Reaction, Physical Change, Efficiency.
Exploring Magnets, Understanding Magnetic Fields, Investigating Static Charge.	Non-Contact Force, Attract, Pole, Repel, Magnetic Field, Strength, Field Lines, Core. Charge, Static Electricity, Field, Attract, Repel.
Exploring Gravity On Earth, Applying Our Understanding Of Gravity To Space Travel. Exploring Pressure On A Solid Surface. Calculating Pressure.	Gravity, Weight, Gravitational Field, Accelerate. Pressure, Area. Formula, Pascal.
Exploring Pressure In A Liquid, Exploring Gas Pressure.	Pressure, Depth, Decompression, Atmospheric Pressure, Weather Front, Altitude.

Grade 7:

Topics	Keywords
Exploring Damages To The Earth's Resources, Considering The Importance Of Recycling.	Sulphur Dioxide, Acid Rain, Pollution. Renewable, Non Renewable, Landfill.
Understanding The Structure Of The Earth. Exploring Igneous Rocks, Sedimentary Rocks And Metamorphic Rocks. Understanding The Rock Cycle.	Mantle, Crust, Tectonic Plates, Magma, Lava. Igneous, Extrusive, Intrusive, Weathered, Deposition, Sedimentary, Fossil, Freeze-Thaw, Metamorphic. Rock Cycle, Uplift.
Describing Journeys With Distance-Time Graphs. Looking At Motion In The Solar System. Describing Stars And Galaxies.	Distance Time, Accelerate, Stationary, Orbit, Ellipse, Star, Nuclear Fusion, Red Giant, Neutron Star, Galaxy.
Explaining The Effects Of The Earths Motion. Making Waves. Exploring Light Waves.	Axis Of Rotation, Season, Reflection, Oscillate, Longitudinal, Transverse Waves. Crest, Trough, Frequency, Hertz, and Wavelength. Transparent Opaque, Translucent, Diffuse Scattering, Absorb.

Grade 8:

Topic	Keywords
Forces And Motion, Newton's 3 Laws, and Acceleration.	Gravity, Reaction, Force, Acceleration, Velocity, Hooke's Law, Work Done.
Energy Transfer, Reaction Time, Thinking Time, Stopping Distance.	Electricity, Heat, Light. Reaction Time.
Kinetic Energy, Elastic Potential Energy, Gravitational Potential Energy, Energy Efficiency Calculations.	Joules, Newtons, Extension, Constant, Sanky Diagrams, Input, Output.
Energy Sources, Renewable Energy, Non Renewable Energy.	Wind Turbine, Solar Panels, Tidal Energy, Geothermal Energy, Cost Efficiency, Energy Transfer.

Grade 9:

All keywords in the Grade 9 curriculum can be found in the specification document, which is also referenced at the end of the newsletter. This month, we will be going back to Chemistry and Biology for those on the double course, and reinforcing knowledge on the following topics:

Double Course:

- Monohybrid Inheritance and Genetic Diagrams
- Cell Division – Mitosis and Meiosis
- Mutations and Inherited Diseases
- Evolution and Natural Selection
- Antibiotic Resistance

Single Course:

- Plant Reproduction
- DNA and Bases
- Monohybrid inheritance and Genetic Diagrams
- Cell Division - Mitosis and Meiosis
- Mutations and Inherited Diseases

How Can You Help?

You can help your children by assisting them in learning the meanings and spellings of the keywords they learn in class, getting them to create posters and spider diagrams, and helping them to answer exam style questions, which can be found in the resources listed below. Please remind your child to revise keywords they have learnt in lesson every day at home to remain confident.

Here are some useful websites:

Grades 6 – 8 (KS3)

BBC KS3 Bitesize <http://www.bbc.co.uk/bitesize/ks3/science/>

Skool.co.uk <http://inteleducationresources.intel.co.uk/parents.aspx?id=321>

Grade 9 (KS4)

BBC KS4 Biteize <http://www.bbc.co.uk/education/levels/z98jmp3>

Specification and Past Paper Material:

<http://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcse-science-2011.coursematerials.html#filterQuery=Pearson-UK:Category%2FExam-materials>

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Thank you in advance for your support in the education of your child. Please do not hesitate to contact me for any further information.

Yours Faithfully,

Miss Deega