

Dear Parent/Carer

I am writing to make you aware that **Year 8 pupils will have a Science end of year assessment the week beginning 7th April 2025.**

There will be 3 separate papers that will cover the **Biology, Chemistry and Physics** topics mentioned below.

- The assessments will take place during lesson time.
- Each assessment will be approximately 40 minutes.

Topic	Monday 7/4	Tuesday 8/4	Wednesday 9/4	Thursday 10/4	Friday 11/4
Biology	P1 8Z P2 8X	P3 8Y			
Chemistry		P3 8X	P2 8Z P5 8Y		
Physics				P1 8X P4 8Z	P4 8Y

- We encourage all students to use the available resources such as **previous revision materials provided by teachers on the Google Classroom, Tassomai, Knowledge Organisers, PLC's, BBC Bitesize and CGP KS3 revision guides.** They have also got access to a study skills drive that has ideas of how to revise.
- Page numbers for the revision guides have been included by each subtopic to help direct revision.

All Students should bring the following to their exams

- x2 Pens (blue or black)
- Pencil
- Ruler
- Rubber
- **Scientific calculator**

If you have any questions please do not hesitate to contact Ms Gajjar on dgajjar@brookvalegroby.com

Kind regards

Ms Gajjar

Assistant faculty lead Science - KS3

KS3 Progress Lead

What to Revise

<p>Organisms 1 (p2&3, p14&15, p26)</p> <ul style="list-style-type: none"> ● Animal and Plant Cells ● Adaptation of Cells ● Unicellular Organisms ● Skeleton ● Joints ● Muscles <p>Organisms 2 (p8-13 & 18-20)</p> <ul style="list-style-type: none"> ● Understanding how we breathe ● Measuring breathing ● Explaining gas exchange in humans ● Exploring the effects of disease and lifestyle Exploring a healthy diet ● Understanding the effects of an unbalanced diet Understanding the human digestive system Understanding the roles of the digestive organs <p>Genes 1 (p21-27)</p> <hr/> <ul style="list-style-type: none"> ● Looking at variation ● Exploring causes of variation ● Considering the importance of variation ● Understanding the female reproductive system and fertility ● Understanding the male reproductive system and fertilisation ● Learning how a foetus develops ● Understanding factors affecting a developing foetus ● Communicating ideas about smoking in pregnancy <p>Genes 2 (p41-47)</p> <ul style="list-style-type: none"> ● Genes: Introduction ● Explaining natural selection ● Understanding the importance of biodiversity ● Explaining extinction ● Understanding the nature of genetic material Exploring the role of chromosomes ● Understanding variation ● Modelling inheritance 	<p>Matter 1 (p49-51 & 62-64)</p> <ul style="list-style-type: none"> ● Particles ● Solids, Liquids and Gases ● Diffusion ● Changes in state ● Separating Mixtures ● Solutions ● Distillation ● Chromatography <p>Matter 2 (p55-59, 67-71)</p> <ul style="list-style-type: none"> ● Looking at the Periodic Table of elements ● Exploring metals in the periodic table ● Exploring non-metals in the periodic table ● Combining elements ● Comparing elements and compounds ● Exploring polymers ● Exploring ceramics and composites <p>Earth 1 (p91-94; 163-166)</p> <ul style="list-style-type: none"> ● Understanding the structure of the Earth ● Exploring igneous rocks ● Exploring sedimentary rocks ● Exploring metamorphic rocks ● Understanding the rock cycle ● Describing stars and galaxies ● Explaining the effects of the Earth's motion Exploring our neighbours in the Universe <p>Earth 2 (p97-99)</p> <ul style="list-style-type: none"> ● Understanding our atmosphere ● Understanding how carbon is recycled ● Exploring how humans affect the carbon cycle ● Understanding global warming ● Exploring damage to the Earth's resources ● Considering the importance of recycling How to extract metals 	<p>Forces 1 (p120-121, 123-128, 162)</p> <ul style="list-style-type: none"> ● Speed ● Speed distance time graphs ● Forces ● Gravity ● Mass and Weight ● Distance vs. Time Graphs <p>Forces 2 (p128-135)</p> <ul style="list-style-type: none"> ● Analysing equilibrium ● Understanding stretch and compression ● Investigating Hooke's Law ● Exploring pressure on a solid surface ● Exploring pressure in a fluid ● Calculating pressure ● Explaining sinking and floating ● moments <p>Waves 1 (p136-150)</p> <hr/> <ul style="list-style-type: none"> ● Exploring sound and what it is ● Hearing sounds ● Understanding how sound travels through materials ● Learning about the reflection and absorption of sound ● Exploring properties of light ● Exploring reflection ● Exploring refraction ● Seeing clearly ● Seeing colour <p>Energy 1 (p102-113)</p> <hr/> <ul style="list-style-type: none"> ● Understanding energy transfer by fuels and food ● Comparing rates of energy transfer ● Looking at the cost of energy use in the home ● Getting the electricity we need ● Using electricity responsibly ● Energy stores and transfers ● Exploring energy transfers ● Understanding potential energy and kinetic energy <p>Electromagnets 1 (p151-161)</p>
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	<p>Reactions 1 (p67-90)</p> <hr/> <ul style="list-style-type: none">● Properties of metals and non-metals● Using metals and non-metals● Exploring the reactions of metals with acids● Understanding displacement reactions● Understanding oxidation reactions● Exploring acids● Exploring alkalis● Using indicators● Exploring neutralisation● Investigating neutralisation	<ul style="list-style-type: none">● Describing electric circuits● Understanding energy in circuits● Explaining resistance● Describing series and parallel circuits● Comparing series and parallel circuits● Investigating static charge● Explaining static charge● Understanding electric fields● Forces and magnetic fields
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