#### Science - Revision



Your assessments will be split into three papers; Biology, Chemistry and Physics.

The questions in these papers will cover topics you have covered in year 6 & 7, as well as what you have learned this year.

Please use this document to help direct your revision.

- Be honest with revision Do not keep revising the photosynthesis equation if you already know it.
- Revise the aspects you struggle with.
- Re-reading a textbook again and again is not revision. Test yourself using various formats and question styles.

Pupils can ask or email for advice.

- There is a revision grid on Google Classroom to use to sign off when you have covered a topic.
- Useful sites and apps are;
  - www.focuselearning.co.uk/u/33297/tltiopirlubDrognerBDlcmsaupF
     xDnki (Login details student@holmwoodhouse24137 password Holmwood456)
  - o <a href="http://www.thesciencesite.co.uk/">http://www.thesciencesite.co.uk/</a>

#### **Good luck**

#### **Useful equations**

Density
Pressure
Speed
Photosynthesis
Respiration
Neutralization reactions (Acid + Alkali)
Products of combustion

□ Separation techniques



## **Biology Topics**

Cells and Organisation https://www.bbc.co.uk/bitesize/topics/znyycdm		
	Structure of animals and plant cells	
	Role of specific organelles ( Cytoplasm, Nucleus etc )	
Luma	ns (Biology)	
	ns (Biology)  Prosthing ( machanical ) https://www.bba.co.uk/hitosize/tanica/zvrrd2n	
	Breathing ( mechanical ) https://www.bbc.co.uk/bitesize/topics/zvrrd2p	
	Structure of the respiratory system	
	Mechanism of breathing	
	Circulation ( Structure of the heart )	
	Negative effective of smoking	
ч	Nutrition <a href="https://www.bbc.co.uk/bitesize/topics/zf339j6">https://www.bbc.co.uk/bitesize/topics/zf339j6</a> ,	
_	https://www.bbc.co.uk/bitesize/topics/ztnnb9q	
	Respiration	
Green	Plants (Biology) https://www.bbc.co.uk/bitesize/topics/zvrrd2p	
	Structure of a plant	
	Photosynthesis is daytime	
	Equation of photosynthesis	
	Respiration	
	Adaptation of leaves	
_	/ daptation of leaves	
Ecolo	gy (Biology) https://www.bbc.co.uk/bitesize/topics/zxhhvcw	
	Habitats & sampling techniques	
	Ecosystems	
	Food chains & webs <a href="https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/1">https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/1</a>	
	Adaptation	
	Variation, Natural selection, Artificial selection & Evolution	
_	https://www.bbc.co.uk/bitesize/topics/zpffr82	
	https://www.bbc.co.uk/bitesize/topics/zpii/oz	
	Chamistry tonics	
	Chemistry topics	
0	ation with the second this town	
-	ating mixtures (Chemistry) [learned this term]	
ILLDS./	/www.bbc.co.uk/bitesize/topics/z9r4jxs	
	Structures of solids liquids and gases	
_	Changing state	
_	Expansion and Contraction	
	Diffusion	
_	Solubility, included saturated solutions and solubility curves	
	https://www.bbc.co.uk/bitesize/guides/z4s48mn/revision/2	

# Science - Revision

☐ Extraction metals from their ores

Displacement reactionsThermal decomposition



Acids and alkalis (Chemistry)		
https://	/www.bbc.co.uk/bitesize/topics/zn6hvcw	
_	Universal indicator paper	
	PH scale	
	Example of everyday acids and alkalis	
	Neutralisation ( green )	
	Acid + Akalias = Water - Salt	
Tests for: https://www.bbc.co.uk/bitesize/topics/zypsqk7		
	Oxygen - relights a glowing splint	
	CO2 - Limewater cloudy	
	Hydrogen - burning splint make a squeaky pop	
	Water - Cobalt chloride paper turns from blue to pink	
Atom e	elements and compounds (Chemistry)	
https://	/www.bbc.co.uk/bitesize/topics/zstp34j	
-		
	Gases of the air	
	Reactivity series <a href="https://www.bbc.co.uk/bitesize/guides/zqwmxnb/revision/1">https://www.bbc.co.uk/bitesize/guides/zqwmxnb/revision/1</a>	
Reaction	ons	
	Patterns of behaviour in Group 1 Alkali metals	
	https://www.bbc.co.uk/bitesize/clips/zfrtfg8	
	https://www.bbc.co.uk/bitesize/guides/z8b2k2p/revision/1	
	Rusting	
	Oxidation - burning metals in air	



## **Physics**

Energy (Physics)https://www.bbc.co.uk/bitesize/topics/zc3g87h			
	Seven types		
	Resources, 'renewable resource is something that can be replenished in a human life time'		
	Sun source of all other energy resources		
	How electricity is generated		
	Law of conservation - energy		
Light (	(Physics) https://www.bbc.co.uk/bitesize/topics/zw982hv		
	Law of reflection		
	Law of refraction		
	Dispersion		
Sound (Physics) https://www.bbc.co.uk/bitesize/topics/zw982hv			
	Vibrations ,Frequency, Pitch and Amplitude		
	Travelling through different mediums		
Space (Physics) https://www.bbc.co.uk/bitesize/topics/z8c9q6f			
	Define day		
	Define year		
	Explain seasons		
	Eclipse		
	Mass and weight difference		
	Satellites		
ш	Solar system		
Electr	icity (Physics) https://www.bbc.co.uk/bitesize/topics/zgy39j6		
	The more difficult components		
	Series and parallel circuits		
	How to measure amps		
	Electromagnets and how to make them stronger		
	https://www.bbc.co.uk/bitesize/topics/zrvbkqt		
	Benefits of electromagnets		
Forces https://www.bbc.co.uk/bitesize/guides/zttfyrd/revision/1			
https:/	//www.bbc.co.uk/bitesize/topics/z4brd2p		
	Force diagrams		

 $\hfill \square$  Speed calculations, distance-time graphs, acceleration

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

# Science - Revision



- ☐ Air resistance and parachutes
- ☐ Pressure calculations, pressure in gases and liquids
- ☐ Hooke's Law and stretching
- ☐ Moments, calculations and everyday examples