



SUBJECT Science		YEAR	7
Why do we study Science? We study Science so that we can understand the physical and natural world around us and so that we can make the world a better place by working and thinking like a scientist.			
What you will learn this year		What you have learned before	Where you can read more
The particle model of matter			
The different states of matter and their properties. Heating substance and changes of state. The difference between a pure substance and a mixture. How to separate mixtures.	Solids, liquids and gases. Separating mixtures.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Movement and cells			
The role of the parts of the human skeleton. How antagonistic pairs of muscles work. The role of cells within organisms and types of specialised cells.	The life processes. The role of skeletons and muscles.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Speed and gravity			
How forces affect the motion of an object. Measure and calculate speed. How mass and weight are different. The effect of gravity and it's strength.	Gravity pulls objects towards the Earth. Compare how things move on different surfaces.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Earth and space			
The types of rocks the Earth is made of and the rock cycle. How models for the solar system have developed. The structure of the universe.	The movement of the Earth and Moon relative to the Sun. Day and night. Light travels in straight lines.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Interdependence and plant reproduction			
How different organisms' populations depend on each other and how they form food webs. How plants are adapted to disperse seeds and how plants reproduce.	Animal adaptations. Classifying plants and animals into groups	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Energy transfers and costs			
Energy can be stored or transferred in different forms. Where our energy comes from and how energy is used in the home.	That common appliances run on electricity.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Electricity			
Common circuit symbols and how to construct circuits. Make measurements about current and potential difference. Static electricity and its effects.	Symbols for simple circuits. How the voltage and number of cells effect a circuit. Conductors and insulators.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	
Variation and human reproduction			
Variation between individuals is either inherited or caused by their environment. The menstrual cycle prepares the female for pregnancy. How a foetus develops and relies on it's mother.	Living things produce offspring but normally these vary and are not identical to the parent.	Horrible science Catalyst magazine Popsci.com KS3 revision guides from cgp	