Year 5: Earth and Space

Subject S	Specific Vocabulary	**	Sticky Knowledge Earth and spa
orbit	An orbit is a repeating path that one celestial body takes around another.	Ä.	-
solar system	The solar system is made of the eight planets that orbit our sun; it is also made of asteroids, moons, comets and lots more.		 One million Earths could fit sun – and the sun is consident average-sized star.
	disterbilish mooris, commets and rots more.		☐ An asteroid about the size
astronomical	Astronomy is the study of outer space, focusing on celestial bodies such as stars, comets, planets and galaxies.		Earth's atmosphere roughl – but it burns up before it r
planet	There are 8 planets in our solar system, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.		☐ Neil Armstrong was the first on the moon.
rotation	Rotation is when a shape is turned around a fixed point.		☐ Earth is the third planet fro
spherical	Something spherical is like a sphere in being round, or more or less round, in three dimensions.	Important facts to know by the end of the Earth and space topic:	atmosphere with free oxyge liquid water on the surface, a
crescent moon	It is a slither of the moon that is lit up and can be seen. It is less than half the moon.	Solar System Orbits	☐ There is no atmosphere in means that sound has no means to travel to be heard.
gibbous moon	The best way to describe a gibbous moon is that the moon is three-quarters lit up.	Sun Annead ball Marroy World World Santon Main Earl	
			Venus is the hottest planet system and has an average
eclipse	An eclipse occurs when an astronomical object is temporarily obscured. A lunar eclipse is when the Earth moves between the	8 = 67 8 = 117 3* 8 = 23.6* 8 = 25.5* 15 36m 15 36m	temperature of around 450
	Sun and the Moon, therefore blocking the Sun's rays from striking the Moon.	Minocore Venus Euro Mass 8 = 5.1 ** 9 = 50 ** 100 4500 177 1400 100	☐ The sheer size of space mal impossible to accurately pr
	Is anything related to the moon.		many stars exist.

Year 5: Forces

Subject Specific Vocabulary		Interesting Books	Sticky Knowledge about
friction	Friction is a force between two surfaces that are sliding, or trying to slide, across each other.	THE MENS SURSE WALKED BETWEEN SME TONIERS	Frictional force is any force that is caused
gravity	Gravity is a force which tries to pull two objects towards each other.		due to friction. An example of this might be when you put on the brakes on your bike.
air resistance	Air resistance is a type of friction between air and another material. For example, when an aeroplane flies through the air.		Gravity is the pulling force acting between the Earth and a falling object, for example when you drop something. Gravity pulls
water resistance	If you go swimming, there is friction between your skin and the water particles.		objects to the ground. ☐ Surface resistance is the force on objects
levers	A lever can be described as a long rigid body with a fulcrum along its length.		moving across a surface, such as an ice- skater skating on ice.
pulleys	Pulley is a simple machine and comprises of a wheel on a fixed axle, with a groove along the edges to guide a rope or cable.	Important facts to know by the end of the forces topic:	Any kind of force is really just a push or a pull.
gears	Gears are wheels with teeth that slot together. When one gear is turned the other one turns as well.	Pully systems	☐ Air resistance is the force on an object moving through air, such as a plane moving through the sky. Air resistance
parachute	A parachute is a device used to slow down an object that is falling towards the ground. As the	Double pulley Single pulley	affects how fast or slowly objects move through the air
Calilaa	parachute opens, the air resistance increases. Galileo developed the telescope to enable close	Rope is attached	☐ Water resistance is the force on objects floating on or moving in water.
Galileo	observation of the night sky.	to bottom of pulley	☐ Magnetic force is an invisible force
Newton	During his lifetime, Newton developed the theory of gravity and made breakthroughs in the area of optics, such as the reflecting telescope.	Load only moves half the distance the rope is pulled, but the effort is also halved.	created by electrons. Magnetic force controls magnetism and electricity.

Year 5: Living Things and their Habitats

Subject Specific Vocabulary		Interesting Books	Sticky Knowledge about	
puberty	Puberty is the name for the time when your body begins to develop and change as you move from childhood to adulthood.	BIG CAT,	Life Cycles ☐ The years between 6 and 14 -middle childhood and early adolescence - are	
gestation	Gestation, in mammals, is the time between conception and birth, during which the embryo is developing in the uterus.	EMPORIUM	a time of important developmental advances that establish children's sense of identity.	
classification	This is the grouping together of similar species of plant, animal and other organisms.	The Very Hungry Cotonviller	☐ Many insects have four stages in their life cycle: egg or the unborn stage; larva – young stage; pupa – inactive	
precision	For scientists, precision describes a measurement system, that is, how reliable it is at giving the same result every time it measures the same thing.	Caterpillar to the Same	(no feeding) stage; and adult stage. In general, the life cycles of plants and	
reproduction	Reproduction is the way different plants and animals make new plants and animals. The reproduction system differs in plants and animals.	Important facts to know by the end of the living things and their habitats topic:	animals have three basic stages including a fertilised egg or seed, immature juvenile, and adult. However, some organisms may have more than three life cycle stages, and	
teenager	The age between thirteen and nineteen. The 'teen' element gives rise to the word teenager. It is a time that humans mature quite rapidly.	Diagram of flowering plant pollen tube stigma style	the exact names of each stage can slightly differ depending on the species.	
obese	Obesity is the condition of being much too heavy for one's height so that one's health is affected. In other words, it means to be too overweight.	Pollination	☐ The early years, especially the first three years of life, are very important for building the baby's brain. A child's	
toddler	Is the period that a young child starts to walk and become more independent.	Pollen Pollen	brain develops rapidly during the first five years of life, especially the first	
embryo	Fertilisation happens when an egg cell meets with a sperm cell and joins with it. The fertilised egg divides to form a ball of cells called an embryo.	Pollination Sigmo	three years. It is a time of rapid cognitive, linguistic, social, emotional and motor development.	

Year 5: Properties and Changes of Materials

transparency In general, transparency is the quality of being easily seen through. Something that is thermal is hot, retains heat, or has a warming effect. Evaporation is the process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure. To dissolve is defined as to become broken up or absorbed by something or to disappear into something else. To dissolve is defined as to become broken up or absorbed by something or to disappear into something else. A white water-soluble powder, used chiefly as an antacid, a fire extinguisher, and a leavening agent in baking. Something that is thermal is hot, retains heat, or has a warming effect. To filter a substance means to pass it through a device which is designed to remove certain particles contained within. Melting is a physical process that results in the transition of a substance from a solid to a liquid.	Subject	Specific Vocabulary	Inte
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thermal evaporation Something that is thermal is hot, retains heat, or has a warming effect. Evaporation is the process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure. Important fat the propertition of a substance of the propertition of a substance of soda To dissolve is defined as to become broken up or absorbed by something or to disappear into something else. A white water-soluble powder, used chiefly as an antacid, a fire extinguisher, and a leavening agent in baking. Something that is thermal is hot, retains heat, or has a warming effect. To filter a substance means to pass it through a device which is designed to remove certain particles contained within. Melting is a physical process that results in the transition of a substance from a solid to a liquid. Separate Separate Separate Something that is thermal is hot, retains heat, or has a warming effect. Hout Paint Casting Relating Separate Separate, part, and divide mean to break into parts or to keep apart.	conductivity		
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an antacid, a fire extinguisher, and a leavening agent in baking. Something that is thermal is hot, retains heat, or has a warming effect. To filter a substance means to pass it through a device which is designed to remove certain particles contained within. Melting is a physical process that results in the transition of a substance from a solid to a liquid. Separate Separate Separate, part, and divide mean to break into parts or to keep apart.	dissolve	or absorbed by something or to disappear into	topic:
filtering To filter a substance means to pass it through a device which is designed to remove certain particles contained within. Melting is a physical process that results in the transition of a substance from a solid to a liquid. Separate Separate Separate, part, and divide mean to break into parts or to keep apart.		an antacid, a fire extinguisher, and a leavening	Fuel
a device which is designed to remove certain particles contained within. Melting is a physical process that results in the transition of a substance from a solid to a liquid. Separate	thermal		Oxygen
transition of a substance from a solid to a liquid. Separate Separate, part, and divide mean to break into parts or to keep apart.	filtering	a device which is designed to remove certain	Heat
parts or to keep apart.	melting	transition of a substance from a solid to a	Paint
	separate		Steel Roof Sheet

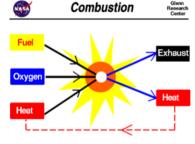
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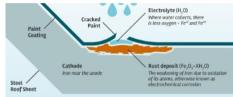


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Sticky Knowledge about properties and changes of materials

- ☐ Irreversible changes, like burning, cannot be undone. Reversible changes, like melting and dissolving, can be changed back again.
- ☐ Mixtures can be separated out by methods like filtering and evaporating. A change is called irreversible if it cannot be changed back again.
- ☐ Examples of reversible changes: Melting is when a solid converts into a liquid after heating. An example of melting is turning ice into water. Freezing is when a liquid converts into a solid.
- ☐ A cooked egg cannot be changed back to a raw egg again. Mixing substances can cause an irreversible change. For example, when vinegar and bicarbonate of soda are mixed, the mixture changes and lots of bubbles of carbon dioxide are made. Burning is an example of an irreversible change.