Year 3: Animals Including Humans

Subject Specific Vocabulary		Interesting Books	Sticky Knowledge about our
nutrition	Nutrition involves drinking enough water and eating the right amount of items from the four main food groups.	Allan Ahilberg & André America FUNNYBONES	skeleton and muscles
skeleton	The human skeleton is made of bone and grows as we grow. Our skull protects our brain and our ribs protect our heart and lungs.	A Brilliant Bone cartains Collection	☐ The spine is made up of 33 bones and the smallest bone is found in our ear.
muscles	Muscles are attached to bones by tendons and help them to move. When a muscle contracts it gets shorter and pulls on the bone it is attached to.		☐ Muscles make up 40% of our total body weight and the smallest muscle is found in our ears.
diet	Our bodies need a balanced diet to work properly. This involves drinking enough water and eating healthily.	 Important facts to know by the end of the animals including humans topic: That humans cannot make their own food. They get their nutrition from what they eat. That humans have skeletons and muscles for support, protection and movement. Diets vary greatly between different groups of animals and humans. 	☐ When we are born we have about 300 bones in our body by the time we are adults we have 206 because some bones
joint	Joints allow the body to make movements. The body has many bones and are connected through the joints.		have fused together.
pelvis	The pelvis is a bony cradle-shaped structure located at the base of the spine.		☐ When broken our bones will repair themselves. Doctors use casts or splits to make sure they grow back straight.
cartilage	Cartilage is a connective tissue found in many areas of the body including joints between bones e.g. the elbows, knees and ankles.		☐ The longest bone in the human body is the thigh bone called the femur.
rib cage	It is made up of curved bones. The rib cage is found in the chest area. It protects a person's internal organs from damage.	A guide to the right belance of the five main food groups Fruit & Veg Carbs & Starches Dairy Protein Sugars & Fats	☐ Bone marrow makes up 4% of a human body mass. It produces red blood cells which carry oxygen all around the body.
tendon	Muscles are attached to the bone by tendons and work in pairs to allow for smooth movement.		
spine	Also known as your backbone, your spine is a strong, flexible column of ring-like bones that runs from your skull to your pelvis.		

Year 3: Rocks

Subject	Specific Vocabulary	Interesting Book	Sticky Knowledge about
fossil	A fossil is the preserved remains or traces of a dead organism.	THE STREET	rocks
soil	Soil consists of a mix of organic material (decayed plants and animals) and broken bits of rocks and minerals.	CHARLOTTE GUILLAIN NO YUNAL ZOMMER	☐ Rocks have been used by humans for millions of years, from early tools and weapons through to
crystals	Crystals are a special kind of solid material where the molecules fit together in a repeating pattern.	BENEATH	construction materials for modern buildings.
sedimentary	Sedimentary rocks are made when sand, mud and pebbles get laid down in layers. Over time, these layers are squashed under more and more layers.	MY FEET	 Sediment deposited over time, often as layers at the bottom of lakes and oceans, forms sedimentary rocks.
metamorphic	When a rock experiences heat and pressure, it becomes a metamorphic rock. All metamorphic rocks start as another type of rock.	Important facts to know by the end of	 Extreme pressure and heat over time forms metamorphic rocks. Examples are marble and slate.
igneous	Igneous rock is formed when magma cools and solidifies. It may do this above or below the Earth's surface.	the rocks topic:	☐ When magma cools and solidifies it forms igneous rock. Examples are granite and pumice.
magnetic pole	Either of two areas on the earth's surface, one near the geographic north pole and one near	Sandstone Marble	☐ The Earth is a very big magnet. Its
	the geographic south pole, where the Earth's magnetic fields are strongest.	Granite Limestone	North and South poles are highly magnetic.
organic matter	Organic matter is matter that has come from a recently living organism. It is capable of decaying.	Chalk Trace Fossil	A magnet always has two poles - north and south. Cutting a magnet in half makes two magnets, each with
attract and repel	A magnetic field is the area around the magnet where it can attract or repel things. When you bring two magnets together they will either attract or repel.	Resin Fossil Mold Fossil	two poles. Magnets only attract certain types of metals, other materials such as glass, plastic and wood aren't attracted.

Year 3: Light

Subject Specific Vocabulary		Interesting Books	Sticky Knowledge about
reflection	A reflection occurs when a ray of light hits a surface and bounces off.	Important facts to know by the end of the light topic: How we see Light rays travel from the light source. Light reflects into the eye. off object. Pupil Iris	light and dark □ Black and dark objects absorb light and
shadows	A shadow is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow.		heat whilst white or light objects reflect it.
light source	The main light source for Earth is the Sun. Some other luminous objects give out light, for		☐ Some objects like glass are transparent which means that light can shine through them.
000000	example, torches, candles and lamps. Opaque objects do not allow light to pass		Our main source of light on Earth comes from the Sun. A ray of light travels very fast.
opaque	through them, in most cases creating a shadow.		☐ Darkness is made by blocking light from
refraction	It is the change of direction of a light ray as it passes through different surfaces, for example, from air to water.		the sun or some other source of light, which makes shadows.
periscope	A periscope is an instrument people use to look at things from a hidden position.		☐ The Sun and other stars, fires, torches and lamps all make their own light and
nocturnal	If something is nocturnal, it belongs to or is active at night. For example, bats and owls.		so are examples of sources of light.
orbits	An orbit is a repeating path that one celestial body takes around another.		☐ A mirror is not a source of light, it merely reflects light. Similarly, the Moon is not a source of light because it reflects the
convex	Convex lenses, also called positive lenses, are lenses that curve outward from the edges to the centre.		light from the Sun. Some animals are nocturnal. They are
concave	A concave lens is one where the centre of the lens is thinner than the edges.		awake at night and can see very well in the dark. Our eyes aren't designed to see at night.

Year 3: Plants

Subject S	pecific Vocabulary	Interesting Books	Sticky Knowledge about
roots	The root is the part of a plant that typically lies below the surface of the		plants
stem	soil. The stem is the plant axis that bears buds and shoots with leaves.	NIGHT THE SEED THAT GREW	☐ Trees are more than just part of our natural landscape. They provide shelter and food for wildlife.
nutrients	Nutrients are the food the plant wants.	GARDENER THE TREE Assert power for the great for the grea	Trees absorb carbon dioxide and produce breathable air.
	Most of the plant's nutrients comes from the soil.	2ht for 20 stood	☐ A large tree can consume 100 gallons of water out of the ground in one day.
pollination	Pollination is the act of transferring pollen grains from the male anther of a flower to the female stigma.	Important facts to know by the end of the plants topic:	☐ Light, air, water and nutrients from soil are all important for plant growth.
seed dispersal	Seed dispersal is the movement or transport of seeds away from the parent plant.	Parts of a flower stamen anther filament stigma style ovary sepal ovule stem stem ovary	☐ The movement of water in plants is driven by a process called transpiration. This is where water evaporating from the leaves of a plant causes the plant to draw up more water from the roots. Water moves up the stem - this is where water molecules seemingly 'stick' together.
fertiliser	Fertilisers are used to increase the rate of a plant's growth.	Flowering Plant Life Cycle	Pollination is the process by which flowering plants reproduce.
seed formation	A seed is a small baby plant enclosed in a covering called the seed coat, usually with some stored food.	Flowering Plant Paul Ovary Stamen Find	☐ Flowers play a big role in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
stigma	The stigma is usually sticky and receives pollen.	Seeds	Insect pollination Pollen sticks to the Pollen falls from
anther	The stamen has a pollen producing structure at the end which is called the anther.	Roots Growth Seed cost Finany leaves Germination Cotyledons Primary leaves	body of the insect insect onto stigma
soil	The soil has water and nutrients that a plant needs to grow healthily.	Roofs	Nectar (sugar water)