

Science Curriculum Key Questions LKS2

Year 3	<u>Revision of KS1</u> What do humans need to survive? Can you explain what a habitat is? What properties does wood have? <u>Forces and Magnets</u> What would be the best surface for friction to work and why? What are two poles on a magnet? How could you find out if something is magnetic? Can you explain why it is important to test something fairly?	<u>Forces and Magnets</u> What does magnetic mean? Can you name three examples of magnetic materials or objects? If two N poles on a magnet were facing each other would they attract or repel? Explain. Which poles of a magnetic attract and which will repel? What happens when a magnet attracts another magnet or magnetic material? What is the difference between a strong magnet and a weaker magnet?	<u>Rocks</u> How is the way sedimentary rocks formed different to how igneous rocks are formed? Can you choose two types of rock and compare them by describing their physical properties? Can you describe how rocks can be useful? Can you explain one use for marble and why it is suitable for that purpose? Can you explain how fossils are formed? What is soil made from? Can you explain the properties of metamorphic rock?	<u>Animals including humans</u> What types of food should humans eat to be healthy? Why is having a balanced diet important? How do animals, including humans get nutrition? What is the purpose of carbohydrate in the human diet? What is the purpose of a skeletal system in humans and animals? What do the muscular and skeletal systems work together to create?	<u>Light</u> Can you describe why light is important to see things? Can you describe what dark is? Why is the light from the sun dangerous? Explain how we can protect ourselves. Can you explain what a shadow is and how it is formed? How does a shadow change when the light source is moved closer to an object?	<u>Plants</u> Can you name and describe five parts of a flowering plant? Can you describe the function of leaves in a plant? How does a plant that has been kept in a dark place grow differently to a plant that has light? Can you give examples and explain how requirements for growth are different between two plants? Can you explain what germination is? Why are flowers important in the life cycle of flowering plants? Can you describe how water is transported through a plant?
Year 4	<u>Revision of Year 3</u> <u>Living things and their habitats</u> What are the main group that animals can be sorted into? What is a classification key? Can you give four examples of vertebrates? What are the features of a reptile? What properties could you use to classify invertebrates? What questions might you	<u>Sound</u> Can you explain how sound is made (including details about vibrations)? How does sound travel to the ear? Can you give five examples of sound sources? What is the pitch of a sound? Can you explain how vibrations link to the volume of sound? What happens to a sound as you get further away from a source? Can you describe the sort of objects that would make sounds with a higher pitch?	<u>Electricity</u> Can you name five common electrical appliances that run on mains electricity? Can you explain how a simple circuit is constructed? Can you describe the purpose of a switch in a circuit and how it works? What do you need in a circuit to ensure a lamp will light up? What happens in a circuit when a switch is open? Can you choose a material that is a good insulator and	<u>Animals including humans</u> What are the main parts of the digestive system? Why is the large intestine an important part of the digestive system? How is food digested in the stomach? Can you explain how the digestive system works? What is the function of canine teeth? What is an incisor used for? How does tooth decay	<u>Animals including humans</u> using scientific vocabulary can you explain what a food chain is? What is the role of a producer in relation to a food chain? Can you choose an example of a food chain and describe a food chain (using specific examples of plants and animals)? How do living things depend on each other to survive?	<u>States of Matter</u> What is different between a solid and liquid? What are the three main states of matter? What happens to plastic when it is heated? How does wood change when it is heated? How does water change when it is cooled? Which unit of measure is used when recording temperature? How do measurements of volume change when water is in different states?

	see on a classification key for sorting leaves? Can you describe how environments change and how this can effect living things?		explain why it is good at conducting electricity? Why are some metals good conductors? Explain how you know.	happen and what can you do to prevent it? Can you describe why molar teeth are important?	<u>States of Matter</u> Can you describe the main processes of the water cycle? What is condensation? What is evaporation? How and why does the rate of evaporation change? What happens to the volume of water when it is frozen?	
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