



## Woodhouse Primary School

### Science Curriculum Overview

<b>Nursery</b>	Continuous Provision: Throughout the year children in the EYFS use and develop knowledge and understanding of science in the Investigation station, mud kitchen and the gardening areas outside. These are regularly enhanced to support children's understanding and development.					
	Changing seasons – Autumn Mixing liquids Making collections of autumnal items to talk about and talk about what they can see	Changing seasons – Winter  Children will talk about what they can see outside and how things are changing	Investigating things that freeze and weather linked to cold/winter  Children will learn about what keeps them fit and healthy.	Children will observe change and growth of chicks and will know the life cycle of chicks  Children will learn about plants and how they grow from seeds and need water to grow They will plant their own seed to grow at home.	Children will learn about minibeasts and focus specifically on bees and their importance in the natural world.	Changing Seasons - Summer
<b>Reception</b>	Changing seasons – Autumn linked to change in the wider sense Investigating mixing of liquids for potion making	Changing seasons – Winter Investigating freezing and melting and how materials change	Learning about body parts – as we learn about hospitals and nurses	Changing seasons – Spring Children will learn the parts of a plant and that it takes time for plants to grow. They will know how to care for a plant and plant their own seed to care for at school. They will visit the local garden centre and buy plants and vegetables to care for.	Children will know that some animals live under water Children will investigate floating and sinking and learn about waterproof materials. Children will start to investigate minibeasts outside (cont. into next half term)	Changing Seasons - Summer  Children will know the life cycle of a butterfly as they care for their own caterpillar and watch its transformation.
<b>Year One</b>	<b>Seasonal Changes</b>  Name the seasons (A and W ) and the types of weather in each season		<b>Seasonal Changes</b>  Name the seasons (Spring ) and the types of weather in each season <b>Animals including Humans</b> Know the names of the parts of the body that can be seen <b>Plants</b> Know the common plant structure		<b>Seasonal Changes</b>  Name the seasons (Summer ) and the types of weather in each season <b>Everyday Materials</b> Know properties of and group materials (testing materials for warmth)	
<b>Year Two</b>	<b>Animals including humans</b> Habitats, adaptations, food chains and classification of animals into living, dead or never lived. Animal reproduction, healthy living and basic needs.		<b>All living things and their habitats</b> Knowing animal habitats. Finding out about small creatures and plants.  <b>Plants</b> How do plants stay healthy, plant and seed growth and plant reproduction?		<b>Materials</b> Identify and compare uses. Invest: How seeds grow best Compare movement on different surfaces and know why or why not a material might be used for a specific purpose.	
<b>Year Three</b>	<b>Forces and magnets</b> Forces, pulleys, magnets <b>Rocks</b> Fossil formation. Comparing groups of rocks, soil.		<b>Animals including humans</b> Skeleton and muscles, nutrition and exercise and health <b>Plants</b> Plant life, basic structure and functions, life cycle and water transportation.		<b>Light</b> Reflections and shadows	
<b>Year Four</b>	<b>Electricity</b> Uses of electricity, simple circuits and switches. Conductors as insulators.  <b>States of Matter</b> Compare and group materials. Solids, liquids and gases. Changing state and the water cycle.		<b>Animals including humans: digestion</b> Digestive system. Teeth and food chains. <b>Living things and their habitats</b> Grouping living things, classification keys and adaptation of living things.		<b>Sound</b> How are sounds made? Sound vibrations and pitch and volume.	
<b>Year Five</b>	<b>Forces</b> Gravity, friction, forces and motion of mechanical devices. <b>Earth and Space</b> Movement of the Earth and planets. Movement of the moon. Night and day.		<b>Properties and changes in materials</b> Compare properties of everyday materials. Soluble/dissolving, reversible and irreversible substances.		<b>Living things and their habitats</b> Life cycles, plants and animals. Reproductive processes. Famous naturalists.  <b>Animals including humans</b> Changes as humans develop from birth to old age.	
<b>Year Six</b>	<b>Light</b> How light travels, reflection and ray models of light. <b>Evolution and inheritance</b> Identical and non-identical off spring. Fossil evidence and evolution. Adaptation and evolution.		<b>Electricity</b> Electrical components. Simple circuits. Fuses and voltage <b>Human Body</b> The circulatory system. Water transportation. Impact of exercise on the body.		<b>Human Body</b> Continued from Spring 2 <b>Living things and their habitats</b> Classification of living things and the reasons for this.	

