Woore Primary SCIENCE Overview

Class 1-Two Year Cycle (Reception and Year 1)

Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
Materials Explore everyday materials including sorting and grouping based on properties. **Forces, Earth, and Space** Explore how seasonal changes affect trees, daylight hours and choice of clothes.	**Animals, including humans.** Explore our sensitive bodies including our basic parts of the body and senses. **Making Connections** Investigating science through stories and hands-on outdoor activities.	**Plants** Introduce types of plant and identify them. Measure leaves and what they need to live. **Animals, including humans.** Compare animals and recognise common characteristics and physical features.	**Materials** Explore everyday materials including sorting and grouping based on properties. **Forces, Earth, and Space** Explore how seasonal changes affect trees, daylight hours and choice of clothes.	**Animals, including humans.** Explore our sensitive bodies including our basic parts of the body and senses. **Making Connections** Investigating science through stories and hands-on outdoor activities.	**Plants** Introduce types of plant and identify them. Measure leaves and what they need to live. **Animals, including humans.** Compare animals and recognise common characteristics and physical features.

Class 2-Two Year Cycle (Year 2, Year 3, Year 4)

Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
Energy (Y3) Identify light sources and explore shadow formation and reflection. **Materials (Y3)** Study rocks and their properties including classifying rocks and how they are formed.	**Animals, including humans. (Y2)** Study the lifecycles of different animals and what they need to survive over time. **Energy (Y4)** Explore sound and vibrations and how our ears function.	**Plants (Y2)** Identify conditions needed for plants to germinate and to grow. **Living things and their habitats (Y2)** Explore different habitats and create food chains.	**Materials (Y2)** Explore uses for everyday materials and their unique properties. **Animals including Humans (Y3)** Study the human skeleton and muscular system.	**Energy (Y4)** Explore different uses for electricity and build simple circuits. **Forces, Earth, and Space (Y3)** Look at the impact of friction and explore properties of different magnets.	**Plants (Y3)** Describe the functions of plant parts and explore seed dispersal methods. **States of matter (Y4)** Investigate the properties of solids, liquids, and gases and changes of state.

Class 3-Two Year Cycle (Year 4, Year 5, Year 6)

Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
Energy (Y5) Explore how light travels and how our eyes allow us to see the world around us including using mirrors. **Living things and their habitats (Y4)** Explore how animals/plants are classified and how habitats can change over time.	**Living things and their habitats (Y6)** Learn about Evolution and Inheritance through scientists such as Charles Darwin. **Materials (Y5)** Investigate properties and explore reversible and irreversible changes.	**Living Things and their Habitats (Y5)** Explore life cycles and reproduction for a species' survival. **Animals including Humans (Y4)** Describe the function of key organs in the Digestive System.	**Forces, Earth, and Space (Y5)** Explore unbalanced forces including gravity, air/water resistance. **Energy (Y6)** Learn to create and draw circuit diagrams and explain current, resistance and voltage.	**Forces, Earth, and Space (Y5)** Explore the celestial bodies in our Solar System. Look at Earth's rotations. **Animals including Humans (Y6)** Explore our Circulatory System and the role of blood vessels and the blood to carry oxygen.	**Animals including Humans (Y5)** Study human development and changes over time including puberty. **Living things and their habitats (Y6)** Explore classifying vertebrates, invertebrates, plants, and micro-organisms.

Working Scientifically

Please ensure there are opportunities to practice **'Working Scientifically'** skills embedded into each unit. There are examples and opportunities for these built into Kapow planning so just choose the most appropriate for your children. Can you include an example of each category below into your cycles?

Pattern Seeking	**Identifying, Classifying and Grouping**	**Observing Over Time**	**Comparative and Fair Testing**	**Research using Secondary Sources**
E.g. Are bigger magnets stronger?	*E.g. Which plants are evergreen?*	*E.g. What happens to fruit over time left in the sun?*	*E.g. Does the temperature affect how long it takes for sugar to dissolve?*	*How do our eyes allow us to see the world around us?*
