The Kite Academy Trust

SCIENCE CURRICULUM OVERVIEW

Year 1	**Seasons and Weather**	**Materials** Which material is the most common in the classroom? (identifying and classifying) Which is the best brand kitchen towel for absorbing water? (fair testing)	**Animals, including humans** How many of each type of animal are there (identifying and classifying)	**Conservation**	Plants Do the tallest trees have the biggest leaves? (pattern seeking)
Year 2	**Animals, including humans** What happens to our bodies when we exercise? (pattern seeking)	**Conservation** How can we conserve energy at home and at school? (research)	**Living things and their habitats** Which of these shows things that are alive were once alive and have never been alive? (identifying and classifying)	**Materials** Which colour is the least translucent? (fair testing)	**Plants** What are the best conditions to grow a seed? (fair testing) How does my seed/bean change as it grows? (observing over time)

Year 3	**Animals, including humans** Do all bones have the same function? (research: identify and classify) What nutrients do humans need and how do they get them? (research)	**Light** Which of these are light sources? (identifying and classifying) Are shadows larger when the object obstructing the light is closer to the light source? (fair testing)	**Forces and Magnets** How do objects move on different surfaces? (fair testing) Which materials are magnetic? (identifying and classifying)	**Plants** How is water transported through a plant? (observing over time)	**Rocks** Can we identify different rocks using the identification key? (identifying and classifying How does adding different amounts of sand to soil affect the speed in which water passes through it? (fair testing)
Year 4	**Living things and their habitats** Which of these animals are vertebrates and which are invertebrates? (identifying and classifying) What impact can humans have on the environment? (research)	**Animals, including humans** Do different liquids affect teeth differently? (fair testing)	**States of matter** Which materials change state when they're heated? (identifying and classifying) How does heat impact the rate of evaporation? (fair testing)	**Electricity** Which materials are conductors of electricity? (identifying and classifying; fair testing) Does the length of a wire affect the brightness of a bulb? (fair testing)	**Sound** How does the size of a column of air of a straw impact the pitch of the sound? (fair testing)
Year 5	**Living things and their habitats** How can we classify living things based on their characteristics? (identifying and classifying)	**Animals, including humans** Do larger animals have longer gestation periods? (pattern seeking)	**Properties and changes of materials** How does the temperature of water affect how long it takes for a sugar cube to dissolve? (fair testing)	**Earth and Space** How do shadows change throughout the day? (observing over time)	**Forces** Can the size of a parachute affect the speed in which it falls? (fair testing)

Year 6	**Living things and their habitat**	**Animals, including humans**	**Evolution and inheritance**	**Light**	**Electricity**
	What are the similarities and differences of microorganisms? (research) What are the similarities and differences between different mammals? (research/identifying and classifying)	How does the heart work? (research) How does your heart rate change through the day? (observing over time)	How did Darwin's finches evolve in order to survive? (fair test for modelling) What different fossils are there? (identifying and classifying)	Does the angle of a light source affect the shape of the shadow? (fair testing) How does the brain recognise how we can see? (research)	How does the voltage of cells affect the brightness of a bulb? (fair testing) How does the brightness of a bulb vary depending on the amount of resistance in the circuit? (fair testing)