

| Science | | | | | | |
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| | Autumn | | Spring | | Summer | |
| Year4 | Materials—States of Matter | Habitats | Animals including Humans | Animals including Humans Teeth and Eating | Energy- Sound | Energy— Electricity |
| | Term 1 | Term 2 | Term 1 | Term 2 | Term 1 | Term 2 |
| | Solid, liquids and Gases | Habitats | Nutrition and Digestion | Teeth &Eating | Sound | Electricity |
| Knowledge (must know) | -compare materials according to whether they are solids, liquids and gases. - understand how heat and cold changes the state of matter -understand that we can change the melting and boiling point of substances | -that living things can be grouped in a variety of ways and that varying habitats found in UK -animal groups and flowering and non-flowering plants found in England -how habitats change over the year -how to construct and interpret a variety of food chains, identifying producers, predators and prey | -what different types of food are there? -Why do we need variety of food? What is our digestive system? | -the different types of teeth in humans and their simple functions -the specific parts of a human tooth -explain tooth decay | -how sound travels -the difference between pitch and volume -how a human ear works -that sound needs a medium to travel -how a range of different musical instruments make sound | -common appliances that run on mains and on battery -hazards/dangers of using electricity -how to remain safe while using electricity - switch helps to break the circuit -Know the difference between a conductor and an insulator, giving examples of each -what are dependent and independent variables in a fair test -Recognise some common conductors and insulators and associate metals being good conductors |
| Skills (be able to) | -sort materials as liquid, gases and solids – observe how heat and cold affects the state of matter and research the temperature at which this happens in degree Celsius -plan a fair test to investigate factors that affect the rate of evaporation | -create keys to identify animals found in England -create keys to identify plants found in England -explore human impact on environment -Explore how removal of one species from an environment, affect others? | -Investigate how our food turn into poo and wee -describe the different functions of basic parts of a digestive system in humans. | -compare the teeth of carnivores and herbivores -suggest reasons for the differences -plan a fair test to find out which drinks cause teeth decay | -plan a fair test to test materials to make earmuffs - identify how the pitch of a musical instrument can be changed | -plan a fair test to find out how you can change the brightness of a bulb -plan a fair test to find out which materials can carry electricity(to sort conductors and insulators) -construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers |
| key vocabulary | energy temperature solid liquid gas melt precipitate freeze | phylum classification habitats adaptation deforestation human impact predator Decomposer Food chain consumer | nutrients Digestive System stomach oesophagus pancreas tooth | decay | pitch frequency amplitude volume waves | conduct hazard electricity electric current appliances mains cell |

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| | Design and Technology Bread | Reading The Fallen Elephant Literacy Letter from an animal's point of view Geography Animals around the World Where animals come from Design and Technology Padded Animals ART Printing/Painting Make an abstract piece using a range of printing tools Cityscape, Fruit bowl, Landscape Ocean animals Jungle or Flowers | Design and Technology Bread Reading Eating Well PHSE Healthy me | Reading Eating well Computing Data and information- Data logging Design and Technology Bread Snacks/pancakes PE Dance Health and Fitness skills PSHE Healthy me | Computing Data and information- Data logging Maths Statistics | |
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| Performance /debate/world of work | | | | | | |