

Science at Burnham on Crouch Primary

Science	Autumn	Spring	Summer
Year 1	Materials – observation, identification and classification Seasonal changes	Animals Including Human Identify, name and classify animal groups using scientific vocabulary Seasonal changes Links to British values and SMSC: <i>Through this topic children will discuss how they can take care and look after animals and birds in the winter, they will develop their awareness and sense of responsibility towards the needs of all living things. The children will begin to learn how to be responsible for their own health and well-being and how they can work with others to exercise and keep healthy</i>	Plants Seasons – Summer Weather charts Links to British values and SMSC: <i>Children will start reflecting upon the beauty and preciousness of nature by exploring the outside environment and growing their own plants. They will start developing their sense of wonder, respect and appreciation for the natural outside world.</i>
Year 2	Animals including humans – Exercise, food and hygiene Living things and their habitats Links to British Values/SMSC through this topic children will continue to develop their understanding of how to take care of themselves and show respect and tolerance towards others. They will develop an awareness and understanding of what it means to be healthy, learning to contribute positively to their own physical and mental well being. They will begin to develop a sense of moral duty and individual responsibility to care for all living things.	Materials – Describe and compare the properties of materials Links to British Values/SMSC through this topic children will develop an awareness and appreciation of their surroundings.	Plants – Conditions for growth Living things and their habitats Links to British Values/SMSC through this topic children will develop their sense of awe and wonder for the world around them. They will reflect on the importance of caring for all living things and will learn to respect and care for their environment, they will learn about the importance of conservation and recycling at school and in the outside community.

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Year 3	Rocks- Properties, fossils. Forces and magnets; Magnetism - Movement on different surfaces. Links to British values/ SMSC- <i>The children will learn to work as part of a team to conduct investigations. They will develop skills around respect, co-operation and teamwork to carry out investigations and test their hypothesis.</i>	Animals including humans- Skeletons and muscles Animals including humans – Nutrition; <i>This will link to keeping healthy- children will look at hygiene, exercise, teeth</i> Links to British values/ SMSC- <i>In this topic the children will have an understanding of how the human body is made up. They will be involved in discussions about how we all look different on the outside but are similar on the inside</i> <i>The children will learn about balanced diets, they will continue to develop their understanding and responsibility of how to take care of themselves. They will be able to reflect upon their lifestyle and will discuss how they can make better choices to stay healthy.</i>	Light – Light to see; reflection; sun dangerous; shadows. Plants- Functions of parts of a plant. Life and growth, flower life cycle. Links to British values/ SMSC- <i>The children will work together to conduct investigations. They will learn how sunlight can be dangerous and form their own decisions about how to keep themselves safe in sunny weather by making sensible choices.</i> <i>The children will discuss the functions of plants and how the reproduction of plants helps the environment. This will create discussions about what is special about life.</i>
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Year 4	Sound – vibrations; the ear; volume; pitch. States of Matter- Solids, liquids, gasses, melting, evaporation, the water cycle. British Values and SMSC – <i>Our children will listen and appreciate each other's ideas about different investigations.</i>	Electricity – Appliances; simple circuit; switch; conductors and insulators. Through this topic children will be taught about the practical safety aspects of electricity. British Values and SMSC – <i>Our children will look into the future options for the production of electricity, alternative fuels, and methods to reduce pollution with discussion of how these can improve people's lives and the environment in general.</i>	Animals including humans- digestive system; teeth; food chains – producers, predators and prey Living things and habitats- Grouping, classification; environments can change and cause danger. British Values and SMSC – <i>Through this work children will continue to learn about the importance of eating correctly personal hygiene and responsibility for their own wellbeing.</i> <i>Our children will be involved in the search for meaning and purpose in natural and physical phenomena. It is the wonder about what is special about life, awe at the scale of living things from the smallest ant to the largest tree.</i>
Year 5	Earth and Space Forces British Values / SMSC <i>Case studies highlighting the roles of all scientists, including British discoveries, and the amazing contribution of all scientists regardless of gender or race. Character and strength of beliefs. Strength of convictions.</i>	Properties and Changes of Materials British Values / SMSC <i>Case studies highlighting the roles of all scientists, including British discoveries, and the amazing contribution of all scientists regardless of gender or race. Character and strength of beliefs. Strength of convictions.</i>	Plant and Animal Life cycles British Values / SMSC <i>Case studies highlighting the roles of all scientists, including British discoveries, and the amazing contribution of all scientists regardless of gender or race. Character and strength of beliefs. Strength of convictions.</i>

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Year 6	Living things and habitats- Classification according to characteristics, microorganisms, plants and animals Links to BV/SMSC- children will demonstrate a respect for the environment and the importance of conservation. They will demonstrate a responsibility to care for all living things by looking at the effects of pollution on endangered species.	Evolution and inheritance- Changes in living things over time, animal and plant adaptation. Animals including humans- Circulatory system, recognise the impact of lifestyle and nutrients in the body. Link to BV / SMSC- children will have a sense of individualism and a respect for the difference of living things.	Light Recognise that light travels in straight lines, explain how things are seen. Electricity Symbols, components and voltage. Link to BV / SMSC- Children will review and evaluate the roles of all scientists, including British discoveries, and the contribution of all scientists regardless of gender or race.
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