

| St Bede's Catholic Academy | | | | | | | |
|----------------------------|--------|---|--|--|--|--|---|
| | | Science | | Yearly Overview | | 2018/19 | |
| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| L. F. S | Year 1 | What is happening to the trees? (Autumn) Who lives here? | What is happening to the trees? (Winter) What happens at night? What is the moon? | Which hat is best to wear today? What is the weather like today? (Winter) What Melts? | What is happening to the trees? (Spring) Who has stripes? Is all of a plant green? | What is happening to the trees? (Summer) What can I grow for my dinner? What is inside an egg? | What makes it move? How does my toy work? What is the weather like today? (Summer) |
| | Year 2 | What is happening to the trees? (Autumn) What happens when you mix it? How do you make a good bubble? | What is happening to the trees? (Winter) What is the weather like today? (Winter) What goes through? | What is happening to the trees? (Spring) What does an earthworm do? | Who are my parents? What am I made of? | What is happening to the trees? (Summer) What is in the sky? | What is the weather like today? (Summer) What floats? |
| U. F. S | | Our Bodies Human body parts, senses, exercise, environment. | Nutrition healthy /balanced eating, teeth | Animals Pets, Wild, habitats (human and animal) | Forces and motion push/pull, magnetism | Life Cycles and Mini-beasts Butterfly, Frog, Sunflower/plants | Water Exploring changing state, absorbent materials, floating and sinking, pollution |
| Year 1 | | Our Changing World: Looking at how plants, animals and the weather change during the year. | Everyday Materials: Learn about a range of basic materials and their properties | Our Changing World: Looking at how plants, animals and the weather change during the year. | Looking at Animals: Learn about a variety of familiar and less familiar animals, including fish, amphibians, reptiles, birds and mammals. | Plant Detectives: Learn about a wide variety of plants, including trees, which can be found in our immediate environment. | Our Changing World: Looking at how plants, animals and the weather change during the year. |
| Year 2 | | Materials - Shaping up and making good choices: Properties of materials. Choosing materials that are suitable for a particular purpose. Looking at different ways of changing shapes of objects made from different materials. | Animals, including humans Taking care and growing up: Looking at different ways to keep healthy and to consider the importance of eating a range of different foods as well as exercise and hygiene. | Animals, including humans Taking care and growing up: Looking at different ways to keep healthy and to consider the importance of eating a range of different foods as well as exercise and hygiene. | What is in your Habitat?: Looking at different habitats and how the living things are suited to those habitats. | Our Changing world: Looking at animals in their habitats and how they change through the year. | The Apprentice Gardner: Looking at what a plant needs to grow and will grow some plants from bulbs or seeds. |
| Year 3 | | Animals including humans: Exploring skeletons, food groups, muscles and joints, balanced diets, effects of exercise. | Animals including humans: Exploring skeletons, food groups, muscles and joints, balanced diets, effects of exercise. | The Power of Forces: Exploring surfaces, friction, magnets, magnetic materials, magnet strength. | Rock Detectives: Exploring different types of rocks, fossils, volcanoes, properties of soil. | How does your garden grow: Learning about plants, structure and function, water transportation, seed dispersal. | Can You See Me?: Looking at light, shadows, reflection, transparency, mirrors, sun. |
| Year 4 | | Who am I?: Finding out about different habitats. Learning about how vertebrates and invertebrates are grouped. | Vibrations : Learning about how different sounds are made. | In a state : Learning about the different properties of solids, liquids and gases. Understanding the water cycle. | Switched on : Learning about electricity and different circuits. | Where does all that food go?: Looking at different food groups, how food is broken down and our teeth. | Human impact : -finding out about the impact of humans on the environment. |

| | | | | | | |
|--------|--|---|---|--|---|--|
| Year 5 | <p>Marvellous Mixtures: Develop understanding of how mixtures of solids and liquids could be separated, To investigate dissolving and how to retrieve dissolved solids from a solution.</p> | <p>Feel the Force: Children to develop an understanding of how forces including gravitational attraction and drag forces affect movement. Investigate pulleys, levers and gears.</p> | <p>The Earth and Beyond: Develop knowledge of the earth's place in the solar system. To understand how day, night and the seasons occur.</p> | <p>Famous scientists and inventors Discovering famous scientists and inventors who have contributed to Science.</p> | <p>The Circle of Life Extend understanding of life cycles (mammals, amphibians, insects and birds) To compare and contrast life cycles and learn about how humans are working towards supporting endangered animals.</p> | <p>Our Changing World: Develop understanding of the life cycles of plants. Look for evidence of plant reproduction and explore methods of growing plants</p> |
| Year 6 | <p>Electricity: circuits, how circuits can change with voltage and representing circuits with diagrams</p> | <p>Living things and their habitats: classification, different environments for different species (adaptation), plant life, microorganisms and types of animals and life cycles</p> | <p>Evolution and inheritance: fossils, evolution, famous scientists and their work.</p> | <p>Light: how light travels, sources of light, the eye, reflection and refraction</p> | <p>Animals, including humans: circulatory system and how our body works. Diet, exercise and drugs.</p> | <p>Our Changing World: How living things adapt to different environments. How physical characteristics, patterns of behaviour and life cycles improve their chance of survival.</p> |