The BAWB Federation
Bainbridge, Askrigg, and West Burton Primary Schools
Rooted in the message of The Good Samaritan, we provide an aspirational education for all.
We flourish academically, spiritually, and socially, enriching our communities.
Executive Headteacher: Ms Vicky Collins

Science Long-Term Plan

Revision of key concepts in blue ***Sustainability foci in green***

	Autumn	Spring	Summer
EYFS **Robins**	**Weather & Climate / Autumn & Winter** • Identify some Autumnal weather • Notice some impacts of weather (puddles, broken branches etc) • Know different countries have different climates	**Hot & Cold / Changing States / Winter & Spring** • Identify different habitats • Know there are different types of weather • Investigate changes of state • Experience planting and growing seeds	**Circle of Life / Summer** • Name features of materials • Learn about growth and changes • Taste foods grown in nursery • Talk about food from animals
Year 1 **Owls**	**Human Body / Materials / Seasons** • Label parts of the human body and learn about the senses • Explore wood, plastic, glass and metal. • Learn about changes of state • Compare data gathered in autumn and winter	**Animals / Caring for the Planet / Seasons** • Mammals, birds, reptiles, amphibians • Herbivores, carnivores, omnivores • Why is it important to care for our planet? • Compare data gathered in autumn, winter & spring	**Plants / Growing & Cooking / Seasons** • Plant seeds and observe them grow • Learn about plants and trees in the local environment • Where does food come from? • Compare data gathered in autumn, winter, spring & summer
Year 2 **Swallows**	**Animals / Humans / Materials** • Mammals, birds, reptiles, amphibians, humans • Exercise, food, hygiene & teeth • Compare and investigate properties of materials • Plastic and sustainability	**Habitats / Plants (light and dark)** • Compare local habitats to others (polar, desert, woodland, ocean) • Microhabitats • Food chains • What do plants need to grow?	**Plants (bulbs and seeds) / Growing Up / Wildlife (sustainability)** • Plant bulbs and seeds and record their growth • Life cycles of humans, mammals, amphibians, butterflies • What does wildlife do for us? What can we do for our wildlife?
Year 3 **Kingfishers**	**Skeletons / Movement / Nutrition / Rocks** • Identify bones and functions of the human skeleton • Vertebrates and invertebrates • Food groups, balanced diets, compare diets (incl animal diets) • Group and test rocks. Local rock survey	**Fossils / Soils / Light** • Types of fossil. Fossil formation. • Types of soil and the importance of soil • Light sources. How we see. Opaque, translucent or transparent. • Investigate shadows	**Plants / Forces / Magnets / Biodiversity** • Parts of plants (dissection). Reproduction of plants and life cycle. • Explore forces. Friction experiment. • Magnets and metals. North & South Poles. • How can we increase biodiversity in our local area.
Year 4 **Golden Eagles**	**Group and Classify Living Things / States of Matter** • Group animals & plants. Vertebrates and invertebrates • Classification keys • Solids, liquids and gases • The water cycle	**Sound / Electricity / Energy** • The ear. Vibrations. • Explore and investigate pitch and volume • Series circuits. Conductors and insulators. • How can we reduce our energy usage?	**Habitats, Deforestation, Digestive System, Food Chains** • Classification keys • What is the impact of deforestation? • The digestive system. Tooth decay experiment. • Draw and interpret food chains
Year 5 **Herons**	**Forces / Space / Global Warming** • Friction, air resistance, water resistance, gravity • Solar system and ideas over time. The planets. The moon. • What is the impact of global warming on living things?	**Materials / Animals (including humans) / Life Cycles** • Testing materials for magnetism, transparency, conductivity and insulation. • Human life cycles. Gestation periods in mammals. • Life cycles: mammals, amphibians, birds, insects	**Reproduction / Changes / Plastic Pollution** • Reproduction in animals and plants. Asexual reproduction. Cloning • Reversible and irreversible changes. Separation of materials. • What are the impacts of plastic pollution on the planet?
Year 6 **Merlins**	**Living things and their habitats / Electricity / Renewable Energy** • Classify animals, plants and organisms. **Carl Linnaeus**. • Series circuits. Complete circuits. Investigate voltage. • Using renewable energy	**Light / Circulatory System / Diet, drugs & Lifestyle** • How we see. Shadow formation. Refraction. • Blood and the Heart. Oxygenated and deoxygenated blood. • Diet, drugs, cigarettes. Heart rate experiment.	**Variations / Adaptations / Fossils** • Inheritance and characteristics • Natural selection. **Charles Darwin**. • Explore fossils. **Mary Anning**.