Science Overview and Intent – Crackley Bank Primary School

	Autumn 1	Autumn 2	Spring 1 Inc - Science Week	Spring 2	Summer 1	Summer 2 Inc – Well-being week
Nursery	Children will explore themselves and the world around them through their senses, movement and hands-on experiences, noticing similarities, differences and change.	Children will explore materials, movement, light and cause and effect through hands-on investigations, noticing and talking about changes they observe.	Children will explore movement, forces, materials and cause and effect through hands-on experiences, noticing and talking about changes as they investigate.	Children will explore plants, food and the natural world through hands-on experiences, observing change over time and developing an understanding of how to care for living things.	Children will explore animals and their habitats, noticing similarities, differences and changes, while developing care and respect for living things.	Children will explore how objects, tools, materials and simple mechanisms work, asking questions, sharing observations and discovering how they are used to help others.
Reception	My body, senses and keeping healthy	Seasonal changes, plants and food	Animals, habitats and seasonal changes	Farm animals, plants and food production	Materials, forces and the natural world	Animals, habitats and environments around the world
Year 1	Everyday Materials	Seasonal Changes	**Animals** Including humans	Plants	Seasonal Changes	Animals Including **humans**
Year 2	Living Things & Their **Habitats**	Uses of Everyday Materials	Living Things & Their Habitats – food chains	Plants	**Animals** Including humans	Animals Including **humans**
Year 3	Rocks	Forces &Magnets	Plants	Animals Including humans – skeletons and muscles	Light	Animals Including humans - diet
Year 4	States of Matter	Electricity	Animals Including humans – food chains	Living Things & Their Habitats	Sound	Animals Including humans – digestion
Year 5	Earth & Space	Forces	Materials - properties	Living Things in Their Habitats	Materials - changes	Animals Including humans
Year 6	Living Things in Their Habitats	Light	Animals Including humans – circulation system	Electricity	Evolution & Inheritance	Animals Including humans – the impact of lifestyle
Notes			Celebrate British Science Week: Scientists and Inventors			Lessons to prepare for Well-being Week (humans)

Science at Our School

The school's intent for Science learning focusses on developing their knowledge, skills and understanding of both science facts and science phenomena. In the Autumn Term, the science curriculum focusses on elements of Science that the children will feel familiar with and can relate to. Light occurs during the Autumn Term for Year 6 due to the nature of the curriculum requiring darker light so that children can investigate how it travels. In contrast to this, Year 3 study light in the Summer Term as their curriculum focusses on the forming of shadows which is greatly enhanced by the sunlight. Electricity is taught in Year 4 in the Autumn Term and this provides knowledge they can apply to the Spring DT focus of electrical systems.

During the Spring term we celebrate British Science Week, looking at Scientists and Inventors which links directly with our curriculum intent to "encourage our children to be aspirational so they can reach their true potential." The curriculum provides opportunities to learn how Science contributes to our lives now and how they could be in employment that required science when they are older .

Plants and living things in the Spring Term lend themselves to working outdoors in the environment, allowing children to work scientifically in their school grounds and beyond – looking at habitats and how plants grow. It also provides opportunities to observe changes in plants over time. Separating Animals, including Humans in KS1 over two half terms allows for children to make clear and focussed comparisons between the two areas. Human science links with our Well-Being Week focussing on healthy eating, body and mind well-being and physical activities. These also link directly with our school's intent to "support the social and emotional development of our children" and to "encourage children to be active."

Throughout all units of science teaching, scientific skills will be taught ensuring that children experience a wide range of activities and learning styles. This will help them to develop their understanding of the nature, process and methods associated with science. To enhance their learning, the children will have the opportunity to use ipads and recording equipment as well as online resources to allow for children to use science alongside modern technologies too. Linking to our curriculum intent to "develop language and vocabulary", children will be able to use the correct scientific vocabulary in context and with deeper understanding so as to develop conclusions and make justified predictions.

Science teaching at Crackley Bank nurtures children to ask questions not only about everyday science but also about phenomena which allows for their awe and wonder of the world around them to be explored. This is explored in all year groups from Nursery to Year 6 following a sequential curriculum that allows for exploration, investigation and knowledge to be developed.

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Primary School