



Year Three: Clumber Class					
Autumn		Spring		Summer	
Fossils, Rocks & Soils (PB) <b>N.C. Y3 PoS</b>	Animals inc. humans (PB) <b>N.C. Y3 PoS</b>	Reduce, Reuse, Recycle (Tw) <b>Beyond N.C. Y3 PoS</b>	Flowering Plants (PB) <b>N.C. Y3 PoS</b>	Forces & magnets (PB) <b>N.C. Y3 PoS</b>	Light and Shadows (PB) <b>N.C. Y3 PoS</b>
<b>Key Vocabulary</b> Sedimentary, igneous, metamorphic, fossil, formed, excavation, erosion, permeable, layers, types	<b>Key Vocabulary</b> Balanced diet, intolerance, celiac, vegetarian, lactose intolerant, omnivore, carnivore, herbivore, food source, growth, energy, repair, dairy, carbohydrate, protein, starch, skeleton, food group	<b>Key Vocabulary</b> Waste, single use, sustainable, landfill, reduce, reuse, recycle, decompose, pollution, renewable, non-renewable, greenhouse gas, greenhouse effect, climate change, carbon footprint, litter, wood, water, oil, coal, e-waste, fossil fuels, biodiversity, energy, biodegradable	<b>Key Vocabulary</b> Roots, transported, pollination, seed formation, seed dispersal, capillaries, reproduction, photosynthesis, energy	<b>Key Vocabulary</b> Contact, objects, surfaces, poles, Newton's, force meter, magnetic force, materials, magnetic field, conduct	<b>Key Vocabulary</b> Behave, change, reflection, UV light, travel, straight line, reflective, light source, natural, man-made, opaque, transparent, translucent

Scientific Knowledge to be covered throughout the year				
Term	Disciplinary Knowledge	Biology	Chemistry	Physics
Autumn 1: Fossils, Rocks & Soils	<b>Comparative and fair testing</b> <ul style="list-style-type: none"> <li>• Y3: Know that an investigation includes simple, practical enquiries.</li> <li>• Y3: Know that measurements can be taken using a range of equipment.</li> <li>• Y3: Know that comparative tests can be carried out.</li> </ul>		<ul style="list-style-type: none"> <li>• Know and describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock.</li> <li>• Know that soils are made from rocks and organic matter.</li> <li>• Know, compare and group together different kinds of rocks on the basis of their simple, physical properties.</li> <li>• Know and recognise the simple physical properties of some rocks to</li> </ul>	



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	<p><b><u>Identifying and classifying</u></b></p> <ul style="list-style-type: none"> <li>• <b>Y3:</b> Know that identified criteria will determine how living and non-living things are classified.</li> <li>• <b>Y3:</b> Know that keys can be used when grouping, sorting and classifying.</li> </ul>		their formation (igneous or sedimentary).	
<p><b>Autumn 2:</b> Health &amp; Movement</p>	<p><b><u>Gathering and recording</u></b></p> <ul style="list-style-type: none"> <li>• <b>Y3:</b> Know that patterns can be naturally occurring.</li> <li>• <b>Y3:</b> Know that conclusions can be formed based on findings.</li> </ul>	<ul style="list-style-type: none"> <li>• Know that animals, including humans, need the right types and amounts of nutrition, that they cannot make their own food and they get nutrition from what they eat.</li> <li>• Know, construct and interpret a variety of food chains, identifying producers, predators and prey.</li> <li>• Know that humans and some animals have skeletons and muscles for support, protection and movement.</li> </ul>		
<p><b>Spring 1:</b> Reduce, Reuse, Recycle</p>		<ul style="list-style-type: none"> <li>• Know, explore the requirements of plants, for life and growth (air, light, water, nutrients from the soil, and room to grow) and how they vary from plant to plant.</li> <li>• Know and recognise that environments can change and that this can sometimes pose dangers to living things (Y4)</li> </ul>		
<p><b>Spring 2:</b> Flowering Plants</p>		<ul style="list-style-type: none"> <li>• Know and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers.</li> <li>• Know and explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.</li> <li>• Know and investigate the way in which water is transported within plants.</li> </ul>		



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		<ul style="list-style-type: none"><li>• Know and explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li></ul>		
<b>Summer 1:</b> Scientists & Inventors		<ul style="list-style-type: none"><li>• Know how plants need water, light and a suitable temperature to grow and stay healthy.</li><li>• Know and describe the basic structure of common flowering plants by observing and sketching a range of common plants.</li><li>• Know the importance for humans of exercise, of eating the right amounts of different types of food, and hygiene.</li><li>• Know and describe the importance of hygiene to humans</li><li>• Know and describe how animals obtain their food from plants and other animals, using the idea of a simple food chain</li></ul>	<ul style="list-style-type: none"><li>• Know about people who have developed new materials (Charles Macintosh)</li><li>• Know, identify and compare the suitability of a variety of everyday materials for particular uses</li></ul>	
<b>Summer 2:</b> Growing plants		<ul style="list-style-type: none"><li>• Know, observe and describe how seeds and bulbs grow into mature plants.</li><li>• Know and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li></ul>		