Science Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	All about me- How we grow and change	Seasons- How do trees changes and why are days getting shorter?	New life and growth- The life cycle of a butterfly	Materials Ice and melting What is a scientist?	Classification Shadows and shadow puppets	Movement investigations What are boats and planes made of? What floats and what sinks?
Year 1	**Chemistry- What are things made of?** *What different materials can I find around me? Are any of them similar?*	**Chemistry- What are things made of?** *Can I group different objects and materials in different ways?* **Biology- Does our world change or stay the same?** *How is the weather changing?*	**Biology- What is alive?** *Do I look different to animals? Why do some trees lose their leaves? What different plants can I find around me?*	**Biology- What is alive?** *What are carnivores, herbivores and omnivores?* **Biology- Does our world change or stay the same?** *How is the weather changing?*	**Biology- What are bodies and what can they do?** *Do all animals look the same? Do I look the same as all animals? How are some animals similar?*	**Biology- What are bodies and what can they do?** *Do all animals look the same?* **Biology- Does out world change or stay the same?** *How is the weather changing?*
Year 2	**Chemistry- How do we choose materials?** *How useful are different materials? Can we change the shapes of different materials?*	**Chemistry- Can we change materials?** *How useful are different materials? Can we change the shapes of different materials?*	**Biology- What is alive, dead or never alive?** *How can we tell if something is alive?* *How do animals and plants change as they mature?*	**Biology- What do living things need to survive and stay healthy?** *Why do living things live where they live? Can they live anywhere?* *What do animals and humans need to keep alive and healthy? How important is exercise?*	**Biology- What do living things need to survive and stay healthy?** *Why do living things live where they live? Can they live anywhere?* *What do animals and humans need to keep alive and healthy?* *How important is exercise?*	**Consolidation and famous scientists study** McIntosh Dunlop Steve Irwin
Year 3	**Chemistry- Are all rocks the same?** *What's underneath my feet?* *Are all rocks the same? How are they made?*	**Physics- What can magnets do?** *Why does my toy car move slower on carpet than on wood? How do magnets work? Can I pick up everything with a magnet?*	**Biology- How do living things work?** *How do I move? What's inside me?* *What does each part of a plant do?*	**Biology- Do living things need different things to survive** *What do plants need in order to grow and thrive? What do I need to keep me healthy and growing?*	**Physics- What is the dark?** *Why can't we see in the dark?* *Why must we never look at the Sun?* *How are shadows formed?*	**Consolidation and famous scientist study** *Marie Curie* *George Washington Carver* *Inge Lehmann*
Year 4	**Chemistry- Is water always wet?** *What are solids, liquids and gasses? Can we change them in anyway?*	**Physics- How do we hear sounds?** *How are sounds made? How can we hear them? Who was Alexander Graham Bell?*	**Physics- Can we control electricity?** *Is electricity useful? Why?* *Can I create a circuit? What are conductors and insulators? Who was Thomas Edison?*	**Biology- Living things: What's the same and what's different?** *How can we group different living things?* *Can environments and habitats change?*	**Biology- What do our bodies do with the food we eat?** *What happens to our food after we've eaten it?* *Why do we have teeth and why are they different shapes?* *What is a food chain and how is it constructed?*	**Consolidation and famous scientist study** *Thomas Edison* *Alexander Graham Bell*
Year 5	**Physics- How do things move?** *Why does everything fall downwards? Why is it harder to run in water than on land? What can I use to slow me down?*	**Physics- Earth, Sun and Moon- what is moving?** *What shares our Solar System with us, and how does it all move?*	**Chemistry- What are things made of?** *How can we change materials?* *Can we change them so much we can't get the original material back again?*	**Biology- Do all life cycles look the same?** *Are all life cycles the same? How do they differ?*	**Biology- How do our bodies change as we get older?** *Will I always look like I do now?* *What does the human life cycle look like?*	**Consolidation and Famous scientist study** *Jane Goodall* *Tim Peake* *Isaac Newton*
Year 6	**Biology- Living things: what's the same and what's different?** *How do we classify different organisms?* *Carl Linnaeus*	**Biology- How do our choices affect how our bodies work?** *What is the heart and what does it do?*	**Biology- How do living things change over time?** *Why do living things look like they do? Have humans always looked like we do? Charles Darwin*	**Physics- How do we see?** *Why can't I see around corners? Why does my shadow have the same shape as me?*	**Physics- Can we vary the effects of electricity?** *Will the amount of cells (and their voltage) in my circuit affect the bulbs, buzzers and motors in it?*	**Consolidation and Famous scientist study** *Charles Darwin* *Carl Linnaeus* *Allessandro Volta*