**Science Curriculum**

**EYFS**

* Explore collections of materials with similar and or different properties.
* Use all senses in hands on exploration
* Explore the natural world around them
* Describe what they see, hear, feel when outside
* Begin to understand the need to respect and care for the natural environment and living things
* Plant seeds and care for growing plants.
* Understand the key features of the life cycle of a plant and an animal
* *Explore the natural world around them, making observations and drawing pictures of animals and plants (ELG)*
* *Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter (ELG)*

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| **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Unit Title: Ourselves**  Year 1 Autumn 1 Ourselves Topic | **Unit Title: Autumn**  4 seasons clipart - Google Search | Apple season, Tree images, Seasons | **Unit Title: Winter**  See the source image | **Unit Title: Growth**  Flower Clipart Vector Images (over 28,000) | **Unit Title: Life Cycles**  See the source image | **Unit Title: Change**  See the source image |
| **Prior experience:**   * Use all of the senses in hands on exploration. | **Prior experience:**   * Use all of the senses in hands on exploration. * Notice things that are the same and different. | **Prior experience:**   * Use all senses in hands on exploration of natural materials. * Talk about what they see, hear and feel. | **Prior experience:**   * Explore the natural world around them. * Make drawings of things they have noticed in the environment. | **Prior experience:**   * Explore the natural world around them. * Make observations of things they have noticed. * Plant seeds and care for growing plants. | **Prior experience:**   * Comment on changes they have noticed in the environment. * Notice seasonal changes. * Comment on changes in the life cycle of a plant or animal. |
| **Prior Vocabulary:**   * Family * Baby | **Prior Vocabulary:**   * touch, see, hear, smell, taste. * Weather | **Prior Vocabulary:**   * Autumn * Weather * Cold * Leaves * Conker * Dark | **Prior Vocabulary:**   * touch, see, hear, smell, taste. | **Prior Vocabulary:**   * Baby * Grow | **Prior Vocabulary:**   * Basic body parts – hair, nose, ear, eye, neck, chest, wrist, hand, knee, foot, head, eyebrow, mouth, chin, shoulder, elbow, arm, stomach, leg, ankle. * touch, see, hear, smell, taste. * Baby, child, adult * Grow, change |
| **Skills:**   * Can I name some body parts? * Can I compare myself to somebody else (I have blue eyes, he has brown eyes)? * Can I say who is in my family? * Can I use my senses to explore? | **Skills:**   * Can I comment on what I notice in the environment? * Can I say what has changed e.g. the tree has no leaves now. * Can I use my senses to explore? | **Skills:**   * Can I explore ice and comment on what I notice as it changes? * Can I describe the weather? | **Skills:**   * Can I plant seeds and water them? * Can I describe what I see as the plants grow? * Can I say that living things grow and need to be cared for? | **Skills:**   * Can I describe what I see and comment on changes? * Can I recognise the changes to a caterpillar as it grows? * Can I make observational drawings of what I see? | **Skills:**   * Can I comment on how I have changed? * Can I comment on what I see, hear, taste, smell and touch? * Can I make observational drawings of what I see? (summer – trees, plants etc). |
| **Knowledge:**   * To know that I have body parts that can do different things e.g. legs help me to walk. * To know that we can hear, see, touch, taste and smell. | **Knowledge:**   * To know that leaves fall off trees in the autumn. * To know that the weather gets colder and the nights become darker. | **Knowledge:**   * To know that weather in winter can be very cold. * To know that water can freeze and ice can melt. | **Knowledge:**   * To know that plants grow and change. * To know that seeds can be planted in soil. * To know that living things need to be cared for. | **Knowledge:**   * To know that all living things grow and change. * To know that an adult of a species does not always look the same as the baby. | **Knowledge:**   * To know that people change and develop in different ways. * To know that plants bloom in summer. * To know that the weather is summer can be hot. |
| **Key moments in big book:**   * Self portrait * Exploring themselves and their bodies | **Key moments in big book:**   * Photographs of autumn walks * Tree/leaf rubbing | **Key moments in big book:**   * Photographs of winter exploration * Photos of melting/freezing experiment | **Key moments in big book:**   * Photographs of planting * Drawings of plant growth | **Key moments in big book:**   * Photographs of caterpillar eggs and butterfly * Drawings of observations | **Key moments in big book:**   * Child’s voice in big book reflecting on how they have changed since the start of the year. |
| **Focus Piece of Writing/Text:**  Self-portrait and name writing  My family… | **Focus Piece of Writing/Text:**  Autumn drawing and mark making  I can see… | **Focus Piece of Writing/Text:**  Labelling winter pictures and polar animals. | **Focus Piece of Writing/Text:**  Plant growth observation notes.  Labelling plant parts. | **Focus Piece of Writing/Text:**  Labelling life cycle.  Notes on drawings of observations – ‘caterpillar egg’. | **Focus Piece of Writing/Text:**  Self-portrait and observations - I can now… |
| **Key Vocabulary:**   * Basic body parts – hair, nose, ear, eye, neck, chest, wrist, hand, knee, foot, head, eyebrow, mouth, chin, shoulder, elbow, arm, stomach, leg, ankle. * touch, see, hear, smell, taste. | **Key Vocabulary:**   * Autumn * Weather * Cold * Leaves * Conker * Dark | **Key Vocabulary:**   * Ice * Snow * Freeze * Melt * Winter * Polar | **Key Vocabulary:**   * Plant * Grow * Seed * Water * Sun * Stem, leaf, flower * Spring | **Key Vocabulary:**   * Grow * Change * Baby * Adult * Develop | **Key Vocabulary:**   * Same * Different * Change * Develop * Summer * Hot * Melt |
| **Curriculum links:**  PSHE – ourselves, families. | **Curriculum links:**  CL – language development and listening walks | **Curriculum links:**  Geography – cold countries | **Curriculum links:**  Maths – plant growth | **Curriculum links:**  Lit – linked text | **Curriculum links:**  CL/PSE – ourselves |