Springfield School

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| Blackbirds Class Medium Term Planning for Science 1 | |
| Topic: India | Vocabulary: Seed, plant soil, stem, leaf, flower, roots, photosynthesis |

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| **Lesson 1 ‘link it’**  **What do plants need to grow?**  Exposition – What do plants need to grow  Groups – Plant seeds in different containers. Provide different conditions for the plant to grow in a see what happens- dark/light wet/dry  Plenary – Share work. | **Lesson 2 ‘learn it’**  **Different parts of the plant**  Exposition – The different parts of a plant  Groups – Draw and label the different parts of a plant Groups – Record our knowledge about plants in a all about plants fact book Plenary – Share work. | **Lesson 3 ‘learn it’**  **The life cycle of a plant**  Exposition – Explore the life cycle of a plant  Groups – Record and draw the different stages of a life cycle of a plant.  Plenary – Share work. | **Lesson 4 ‘learn it’**  **Different types of plants**  Exposition – Explore different types of plants.  All about plants Twinkl ppt  Groups – complete a worksheet describing flowering and non-flowering plants .  Plenary – Share work. |
| **Lesson 5 ‘learn it’**  **The life cycle of a plant**  Exposition – Explore the life cycle of a plant .  Complete a worksheet showing the growth of the seed you planted at the beginning of the term. Twinkl |  | . |  |

Take the objectives for the LO stickers from this section

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| Substantive Knowledge (Content) | Disciplinary Knowledge (Skills) |
| **Observing and Measuring Changes**  **Children can:**  a make systematic and careful observations;  b observe changes over time;  c use a range of equipment, including thermometers and data loggers;  d ask their own questions about what they observe;  e where appropriate, take accurate measurements using standard units using a range of equipment.  **Identifying, Classifying, Recording and Presenting Data**   |  | | --- | | Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.  Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.  **Children can:**  **a** talk about criteria for grouping, sorting and classifying;  **b** group and classify things;  **c** collect data from their own observations and measurements;  **d** present data in a variety of ways to help in answering questions;  **e** use, read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge;  **f** record findings using scientific language, drawings, labelled diagrams, keys, bar charts and tables. | | * Relate knowledge of plants to studies of all living things. * Describe the life process of reproduction in some plants and animals. |

Progression of Learning

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| ‘Link It’ | ‘Learn It’ | ‘Check It’ | ‘Show It’ | ‘Know It’ |
| Previous learning of pupils   * Knowledge of plants * Observations of plants in the immediate environment | Activities provided during lesson  Resources  **PPTs**  **Pictures**  **Seeds**  **Plants**  Activities to explore –  - pictures of plants  - Plants and soil | Independent activities linked to lesson  Resources  **PPTs**  **Books**  **Pictures**  Activities-  -Plants and soil  - Pictures of plants  Opportunities to demonstrate knowledge | How will the pupils share knowledge during or end of lesson  **Explore and discuss photographs of lessons**  Share and compare work | Retrieve or generalization of learning after lesson   * Understand what plants need to grow * Understand the different parts of a plant * Demonstrate some knowledge of photosynthesis |