Teaching Sequence

Term 3– Materials part 2

What do we already know?

Flashback Friday - Prior knowledge, Key Scientific vocabulary. Materials Properties, Sorting and grouping, Strength, Insulate Absorb, Reflect Assessment opportunity.

Magnetic and non-magnetic materials.

What do you notice about materials that are magnetic and not magnetic?
What everyday objects are magnetic? What is their purpose?
Magnet investigation.

Significant Scientists

John Dunlop, John Loudon McAdam & Julie Brusaw.
What did they invent? Why are their inventions important? How has it impacted our lives?
Compare their impact on society.

Materials on Different surfaces

Links to suitability of materials.
Introduce the idea of friction.
Investigation- How far does an object travel on different surfaces?
Conclude using results- more or less friction.

How can solid shapes be changed?

Introduce the idea of solids and liquids.
Reflect on what the children know about solid materials.
Investigation- Explore bending, twisting, squashing and stretching of solid materials.

What do we know now – how can we use it? The purpose

What is the same? different? How could they be sorted/ grouped?
The explain it - Scientific diagrams and explanations. Explain the purpose of materials and why. Quiz opportunities.

Teaching Sequence

Term 4– Plants

What do we already know?

Flashback Friday - Prior knowledge ,Parts of a plant & tree, key questions, Key Scientific vocabulary. Assessment opportunity.

Working Scientifically – Observing

Identify and name a variety of plants
Go outside and explore different plants.
Do they know names/seasonal plants.

Working Scientifically – Observe

What do seeds and bulbs look like?
Why do they start to grow when you plant them?
Cress seeds and bean seeds in hydraponic kit.
Draw observations.

What do plants need to stay healthy?

Investigate conditions in which seeds and bulbs germinate.
Plant seeds in different conditions. Predict.
Observe germination as well as leaf colour and height.

Communicating findings

Describe how the seeds need water, light and a suitable temperature to grow and stay healthy
Conclude.

What do we know now?

The explain it - Scientific diagrams and explanations.
Quiz opportunities.