

# Glenfield Infant School Knowledge Organiser

Year 2 - Summer 2	Science	Making Connections - Plant-based materials
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## What should I already know?

I know that different materials can be reused.

I know that some materials are man-made, and others are natural.

I know that materials are used if their properties are useful.

## Vocabulary:

Materials	The things that objects are made from, like wood, plastic, metal or paper.
Properties	What a material is like and how it behaves, such as being hard, soft, bendy or waterproof.
Reduce	To use less of something, like using less plastic or water.
Reuse	To use something again instead of throwing it away.
Recycle	To turn old things into new things, like old plastic bottles becoming something new.
Eco-friendly	Something that is good for the Earth and helps take care of nature.
Plastic Pollution	When plastic rubbish is left in the environment and harms animals, plants and nature.

### 1. How can we sort materials and decide how they can be reused or recycled?

- reduce** Use less materials that are harmful to the environment like plastic.
- reuse** Use materials again whenever possible before throwing them away.
- recycle** Sort materials that can be recycled from those that cannot.



**Sticky Knowledge** Different materials have different properties, such as plastic being strong and waterproof and fabric being soft and flexible. We can help the environment by reducing what we use, reusing objects again, and recycling materials to make new things.

### 2. How can we tell if a material is natural or human-made?



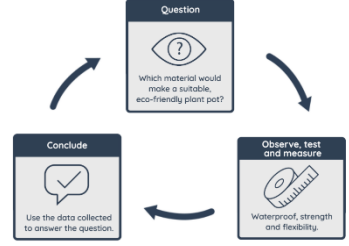
**Sticky Knowledge** Natural materials come from plants, animals or the Earth, while human-made materials are created by people. Human-made materials are useful because they can be strong, flexible and waterproof, but we should reduce, reuse and recycle them to help the environment.

### 3. Which material would make the best eco-friendly plant pot and why?



**Sticky Knowledge** We can test materials by folding, ripping and adding water to see if they are strong and suitable for a purpose. Eco-friendly materials like paper, card and natural fabric are better for the environment because they can be reused or break down more easily.

### 4. Which material is best for making a strong and eco-friendly plant pot?



**Sticky Knowledge** We can test materials by folding, rolling and adding water and soil to see if they are strong enough to hold a plant. The best plant pot material is strong and waterproof but also eco-friendly so it can be reused or break down without harming the environment.

### 5. How can we use natural and recycled materials to help reduce plastic pollution?

#### What is the life process?

- When living things make new versions of themselves.
- How living things get the energy needed to grow and stay healthy.
- When living things get rid of waste.
- When living things sense changes happening around them.
- When living things get bigger or change appearance.
- Living things do this without being pushed or pulled.

**Sticky Knowledge** We can help the environment by choosing natural or recycled materials instead of plastic because they are less harmful and can reduce pollution. Plants need light, water and warmth to grow, and seeds can be planted in soil to begin their life cycle in an eco-friendly plant pot.