Characteristics of Materials

1. We will recognise objects are made of different **materials**.
   - Why has this material been used to make this object?

2. We will know that different materials have different **properties**.
   - Do some materials have more than one property?
   - How would you tell the difference between two materials?
   - How do you know what you are touching is glass?

3. We will investigate why materials are chosen for **making** objects according to their properties.
   - What other material could be used to make this object? Why?
   - What materials couldn't be used to make this object? Why?

4. We will investigate which paper towel has the best properties to wipe up spills in the staff room.
   - Which is the best paper towel?
   - What properties should a paper towel have?
   - How could you measure how much liquid has been soaked up?
   - How can you make your test fair?

5. You will learn that some materials are found naturally and others are not.
   - Is it natural or man-made?
   - Could these materials be sorted in a different way to the ways we have sorted - *not by their properties*?

6. We will investigate which is the best packaging material to wrap up a meringue nest to send in the post.
   - What would be the best way of wrapping it up?
   - What sort of property should the wrapping material have?
     - *Should it be hard or soft?*
     - *Should it be flexible or rigid?*
   - How can we test this fairly?

7. We will compare and test different types of paper to see which is the **strongest** paper to use for paper bags.
   - Which types of paper will make the strongest paper bags?
   - How could we test how strong the paper is?
     - *Which paper do you predict to be the strongest?*
     - *What do you need to measure?*
     - *How will you make your test fair?*