Y1 Which materials would you use to make a spaceship?	**Power of Reading link texts** **Beegu** **Goodnight Spaceman**

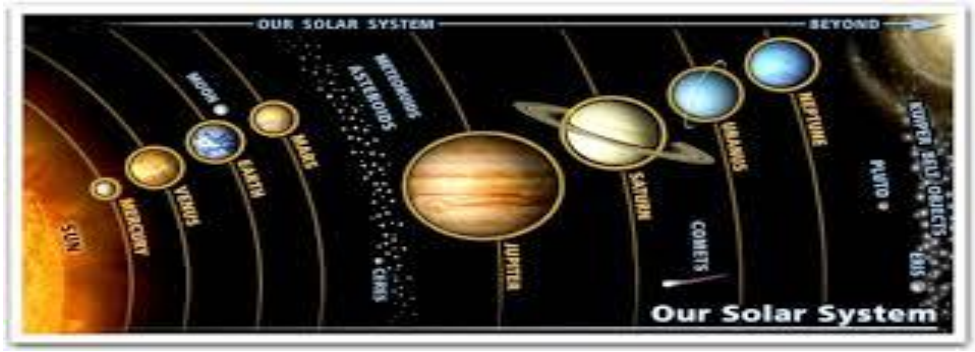
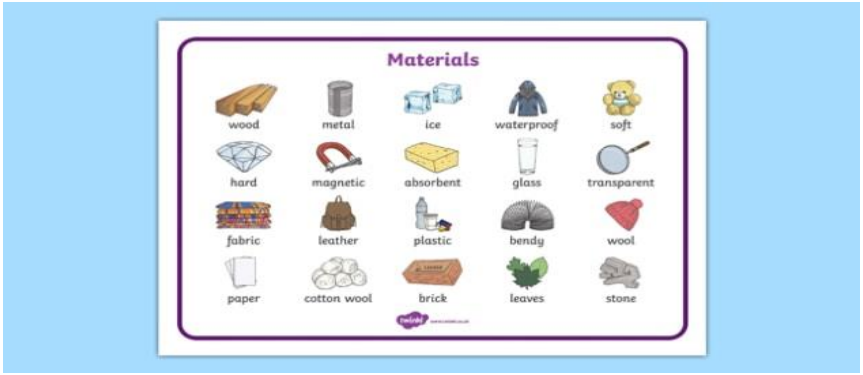
National Curriculum PoS - Science:

Materials

- distinguish between an object and the material from which it is made
- identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials
- compare and group together a variety of everyday materials on the basis of their simple physical properties.

Procedural knowledge:

Planning
Can they think of some questions to ask?
Can they talk about what they <see, touch, smell, hear or taste>?
Doing
Can they perform a simple test?
Can they use simple equipment to help them make observations?
Evaluating
Can they identify and classify things they observe?
Can they tell other people about what they have done
•Can they answer some scientific questions?
•Can they give a simple reason for their answers?
•Can they explain what they have found out?
Can they show their work using pictures, labels and captions?
•Can they record their findings using standard units?
•Can they put some information in a chart or table?

Key Facts	Key Images	Key Vocabulary
We will find out about space and the planets in our solar system. We will look at different materials and their properties. We will test different materials to see if they are waterproof. Wood Plastic Cloth Cardboard/paper Metal Glass Natural/manmade We will teach the correct and safe use of appropriate tools to join materials. We will add moving parts to the design of their spaceships. We will create a series of instructions and plan journeys for Beebot around a map of Hyde and a map of Beegu's planet. Fair testing	  Tim Peake 	. Rigid Flexible bendy Elastic – springs back into original shape waterproof Transparent / opaque / translucent Smooth Rough Shiny Solar System Milky Way Galaxy Planets Stars Astronaut Space Sun Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune

Journey towards the final outcome: to be decided by staff

Children explore a range of materials from the crash site.

Name and sort materials.

Explore the classroom and label materials by name.

Look at properties of materials.

Vocabulary of properties- bendy , strong etc

Explore floating and sinking.

Discuss a fair test and conclude using pictures on a table.

Continue looking at properties.

Explore waterproofing.

Set up experiments to test materials. Make predictions.

Discuss outcomes.

Discuss space and planets.

Gather information about different planets.

Create a visual solar system within the classroom.

Make a home planet for Beegu.

Use Beebots to navigate around the planet. Directional language.

To plan and build a spaceship using appropriate materials, ie it has to be waterproof to land in the sea..