



## Y1: Materials Workshops with Mercedes (School Scientist-in-Residence), Autumn 2023

- LO: To carry out an experiment to see which materials are waterproof.
- LO: To be able to describe why some materials suit certain objects better than others.

This term, Year 1 have been looking at materials. They started the session with a box of objects made of different materials, including rubber, plastic, wood and paper. To start with, the children had to decide whether each of the objects/materials were waterproof (let water through) as a table group. Once they had decided, we ran through experiments and what we needed to define and write down to remember for later. This included figuring out what we were changing (the materials), measuring (whether they were waterproof), and what we needed to keep the same to make sure our test was fair (we decided to use the same amount of water and do each test exactly the same). We then did the experiment as a large group, pouring the same amount of water onto different materials with a piece of paper underneath, to see whether the paper got wet!



Then, the children had to look at the box of materials and decide what they would use to build/make different objects, including packaging, a house, a car and shoes. After making a list of different materials, images of objects appeared on the board, and the children had to give a reason for picking their material, and then suggest one they would not use, and why.

Finally, the children made boats. They were given a list of different objects (paper, lollipop sticks, plastic bags, sponges) and had to decide what they would make their boat out of, knowing it had to float and be waterproof. Once they had decided, they built their boat. There were lots of different ideas for how to make the perfect boat!

*“I loved making the boat!”*

*“It was so fun working with Miss Mercedes and making a boat.”*

*“We worked out what was waterproof.”*

*“I hope we can do this again, it was the best day!”*

Kind regards, Miss Kelly & Mrs Hayes – Science co-ordinators

