



Shepherds Class Science Week 2024 Report

Theme - 'Time'

Shepherds class were introduced to this year's theme of 'Time' and set a timed challenge. The children were challenged to work in pairs to stack 15 paper cups in a triangle tower finishing with one cup at the top, before the 30 second timer ran out! They loved the challenge and it only took four attempts for the **whole class** to meet the challenge! Great teamwork everyone.



The children then learnt about changes that happen to the environment over time as a result of increased air pollution. They found out that the air around them contains particles of different sizes and that some of the particles are as a result of air pollution such as smoke and exhaust fumes as well as other particles like grass and tree pollen. They learnt that their airways decrease in size from upper to lower regions to prevent larger particles from entering the lungs. The class then made predictions about the behaviour of different-sized particles when they're inhaled.

Once the children understood how the upper and lower airways work, they created their own model airway using flower pots, colanders and sieves. They then mixed up a range of different sized particles to be 'breathed' (poured) into the model airways.



The children watched as the particles moved through the model airways and wrote down their findings in an observation grid. They concluded that the upper and lower airways filtered out most of the particles so that they did not enter the lungs, however the very small particles (the sand) did. This led to a discussion about air pollution, how the respiratory system in their bodies work and the effect that pollution has on it.