

Bella (1DD) used her time during lockdown to revise her understanding of materials! She engaged in an experiment to see what would happen if she poked pencils through a plastic bag filled with water. She did it in the garden to make sure no water would spill in the house! She then recorded her findings to notice what she found!



Science Experiment

Name of experiment: Poke holes in a Ziploc bag

What I needed:

Ziploc bag
Sharpened pencils
Water

What I did:

1. I poured some water into the Ziploc bag around half a bag full.
2. I poked the pencils through the Ziploc bag with water. The pencils had to stick out on both sides

The water did not fall out of the bag. This is because Ziploc bags are made from polymer. When you poke the sharp pencil into the plastic the pencil point slides in between the chain of molecules that make up the polymer. The molecule chains "hug" the pencil, making a seal around the pencil that will not let the water out.