SHADOW INVESTIGATION

Have you ever noticed how shadows change over a day?

Use this investigation to observe more closely what's happening.

YOU WILL NEED:

a two pencils, a ball of blu tack or play dough, a piece of paper or chalk (to draw on the path), a ruler or tape measure, a sunny day!

You could use a tree or something else that causes a shadow instead of a pencil and blu tack, if available in your garden.

INSTRUCTIONS:

- 1. Find a sunny spot outside or on a large windowsill.
- 2. Place the pencil so that it is standing upright in the ball of blu tack or playdough and place it on top of the piece of paper or on a path or concrete that you can draw on with chalk. Make sure that a shadow is created.

- 3. Draw around the shadow using a pencil, or chalk if drawing straight onto a path (miss out this step if your shadow is on grass or an area that you cannot draw on).
- 4. Measure the length of the shadow and record in the results table, including the time that you measured the shadow.
- 5. Leave the pencil (or other object creating the shadow) where it is and return to draw and measure the shadow at different times throughout the day.

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