Science Week 4: Enquiry Type - Observation over Time

Question



How does a shadow change over time?

Shadows change due to the Earth rotating on its axis. Attach a thin object to your window, eg a pen, ruler or opaque tape. Place a piece of white paper on the windowsill directly below the object. Make sure the object is in the centre of the page. A shadow should appear on your paper. Draw around the shadow and label it with the time. Check on the shadow every hour or half hour throughout the day, each time drawing and labelling the shadow.

Question Predict Observe Record Analyse Report

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Look at the shadows that you have drawn. When was the shadow longest? When was it shortest? Create a labelled drawing showing how you set up your experiment.

Use your observations to make a sundial. What distance is there between each hour? Is each hour the same distance apart? Would the clock be correct all year around? Would your clock work if it were used in a different country eg. Australia, South Africa, Algeria?