

## Night and day investigation

What causes us to have a night and a day? Why is it night on one side of the Earth but day on the other?

For this investigation you will need:



A round balloon



A marker pen



A torch

- 1) Carefully draw or write "UK" on one side of the balloon with the marker pen or felt tip.
- 2) On the opposite side of the balloon write the name of another country or continent that you know is on the other side of the world (for example, Australia).
- 3) Ask an adult to let you use a dark room or the garage where there is little light in.
- 4) Ask the adult to hold the balloon up. This is the Earth.
- 5) Shine the torch on the balloon. Where does the light fall? Does the light reach all parts of the balloon? Which parts are in darkness?
- 6) Keep the torch still and ask the adult to rotate the balloon. What happens? Are the same areas still in the light? Are some places now in the dark?

How does this help you understand day and night?

Draw a diagram of your experiment and label what each of object represents (torch = sun; balloon = earth). Now write a paragraph explaining what you have learnt about day and night.