



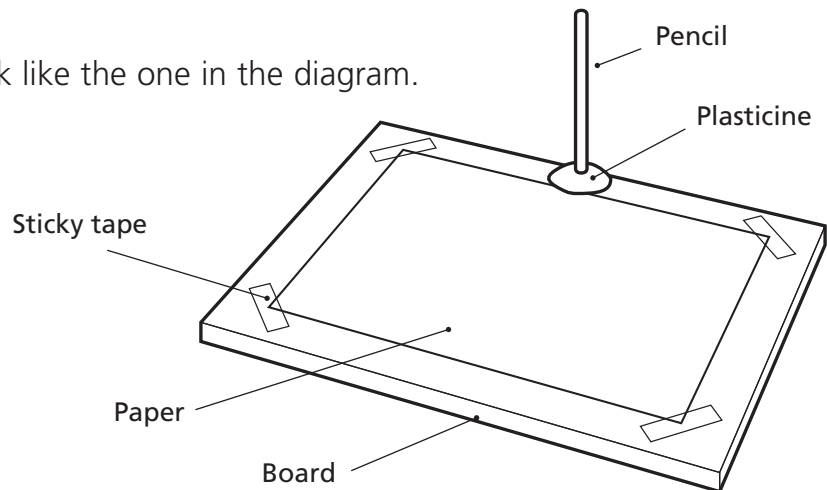
Name: Form:

Based on pages 14 and 15 of *Earth and beyond*

Shadow clock

Try this...

1. Set up a simple shadow clock like the one in the diagram.



2. Put the shadow clock on a table near a sunny window or set it up in a sunny part of the playground or sports field.
3. Use a compass to find the direction of north, east and west and mark the directions in the corners of the paper.
4. Start as early in the day as you can. Mark the length and direction of the shadow every half hour and record the time. If there is no shadow at certain times just make a note. You will need your notes later.
5. On the back of this sheet, or on a separate piece of paper, make a table of the shadow length throughout the day. Include times when no shadow was present.
6. Make a bar graph of the results in the table.

Looking at the results.

7. How did the direction of the shadow change during the day?



.....

8. How did the length of the shadow change during the day?



.....

9. If there are any gaps in the graph, try to predict what the shadow length should have been. Draw in the prediction bars with P written on them.