**Badgers Science 05/20 Earth**

**Week 5**

This needs to be done on a sunny day!

Investigate how shadows change during the day.

Put a stick into the ground in the middle of an open space – garden or patio will be fine. At different times during the day, look to see where the shadow of the stick is. Measure how long it is (you could use a tape measure, your feet or any other item as long as you use the same unit of measurement each time) and try to find out which direction it is pointing (Google Maps should help you work out which way is North). If you do this on a concrete surface, can you draw the shadows and take a picture at the end of the day?

Record your results in a table – this is an example. Is there anything else that you want to record – how dark is it? How thick is it?

|  |  |  |
| --- | --- | --- |
| **Time of day** | **Length of shadow (cm)** | **Direction the shadow is pointing.** |
| 9  |  |  |
| 10 |  |  |
| 11 |  |  |
| 12 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

What have you found out about shadows?

How can you share your findings – presentation, newspaper report, animation, news broadcast or video it. Can’t wait to see your findings!