

Shadow experiment

In this experiment, you will be going outside to see if shadows change throughout the day. You will need to go outside at these times and measure your shadow. It is easier to do if you have chalk as someone can help to draw around your shadow and then you can measure it afterwards. If you don't have any chalk, then the person helping you will need to either measure your shadow or you can measure their shadow.

What do you think might happen? Try to use because in your answer!

Time of day	Prediction (length of shadow in cm)	Actual length of shadow (in cm)
9.00am		
10.30am		
12 O clock		
2.00pm		
5.00pm		

What did you notice about the length of the shadow throughout the day?

Useful links with further information and to explain why this happens

Shadows powerpoint (uploaded on the website)

<https://www.schoolsobservatory.org/learn/astro/esm/daynight/shadows>

<https://www.youtube.com/user/crashcoursekids>

Can you explain in your own words why shadows change shape throughout the day?
