

Science

Light and shadows

Today, you are going to be investigating how shadows have the same shape as the objects that cast them and how these shadows move throughout the day.

Choose an object from your house (maybe a toy that creates an interesting shape?) and place it outside in the morning. Have a look at where the shadow is and investigate how it moves/changes throughout the day. You could draw a picture of the object and its shadow or you could take pictures from the same position or you could draw around the shadow using chalk. It's up to you how you record it.

Remember to keep this as a fair test, the object needs to stay in the same position all day.

If it's a cloudy day and you're struggling to see the shadow, talk about this and do the experiment on a different day.

Record where the shadow is at least 4 times in the day and then answer these questions:

What happens to the shadow?

Is there a pattern in the way that the size of shadows change?

What does this tell you about the sun?

