

### Shadow Investigation

**Summer 2022 was certainly a hot Summer to remember! Wonder what summer 2023 will be like?**

**Fact:** The summer solstice is traditionally acknowledged as 21<sup>st</sup> June but scientifically depends on when the Sun reaches its northernmost point from the equator. Therefore, the **solstice** won't **always** occur on the same day. Currently, it shifts between **June 20, 21,** and 22.

**Perhaps you could investigate shadows with your children.**



#### Science inv

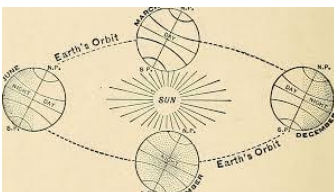


1. First place a marker in an open, clear space on a surface on which it is OK to chalk on.
2. Stand on/over the marker and ask another person to draw around your shadow, you could record on a camera.
3. Repeat hourly, if you can, throughout the day.
4. Can you predict what might happen to your shadow through the course of the day?

**What happens to your shadow?**

**Can you identify when the sun is highest/lowest in the sky? How do you know?**

**What would happen if you repeated the experiment at a different time of the year? Can you explain your answer?**



**Literacy link** - Check out the poem My Shadow by Robert Louis Stevenson

<https://www.poetryfoundation.org/poems/43196/my-shadow>

Chasing each other's shadows is a great game to play.

**Maths links** – How many days, hours, seconds in a year? How old are you months, days, hours and even seconds? Put in your date of birth into ...

<https://www.timeanddate.com/date/duration.html> and find out!