

**This week in Science, you are going to try and make a shadow clock.**

Watch the videos using the links below. (NB. You may have to scroll down a little to find the videos.) The first two videos show sundials used in the past and the last video shows how shadows are cast and gives some fascinating facts about shadows on other planets.

<https://www.sciencemuseum.org.uk/objects-and-stories/telling-time-sun>

<https://youtu.be/tIOGqYJha1Q>

<https://vimeo.com/161478146>

**Vocabulary:** Shadows, sun, source, Earth, orbit, cast, hourly divisions, hours, opaque, solid, reflect, transparent, translucent, travels, straight, tallest, shortest, seasons, time.

**Week 14 - Science Task**



Can you make a simple shadow clock or sundial, calibrated (carefully set up) to show midday, breakfast time and dinner time? I would use a pencil or stick held vertically to produce the shadow. How long will the shadow be at breakfast time? What position will it be in? You will need to make this over a whole day, or several if it is cloudy. Remember, you must keep your sundial facing the same way each time you use it. When you have made your sundial and drawn the position of the shadow at each time, you can then use the length of the shadow to tell what the time is. Your family will not believe you can tell the time only using the sun!

Stay safe,  
Mrs James