

## The Sun's Power

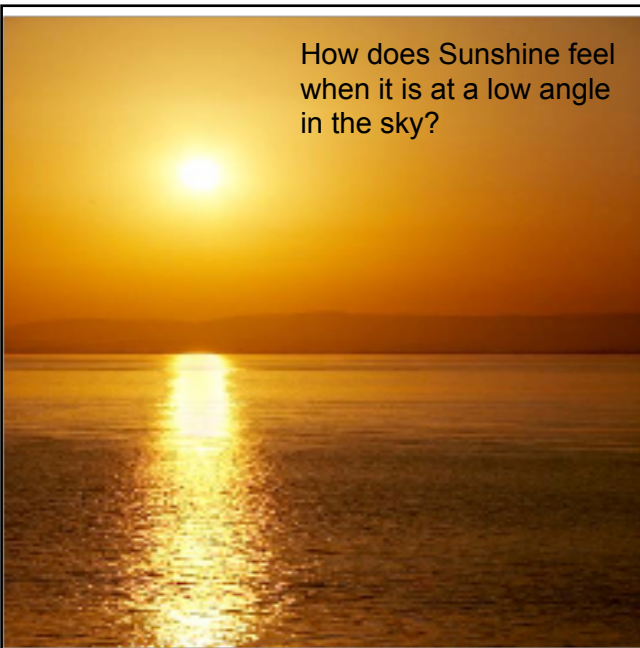


You know that the Sun provides energy that keeps earth warm.

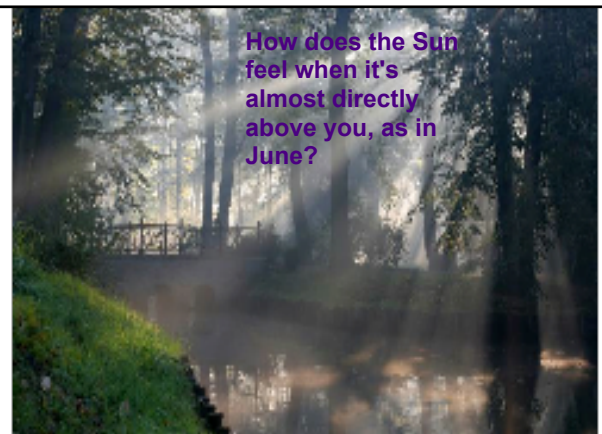
But where on earth is the Sun's energy strongest?

Do some patterns of the Sun's radiation relate to your climate or weather?

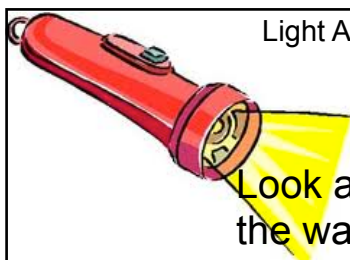
How does Sunshine feel when it is at a low angle in the sky?



How does the Sun feel when it's almost directly above you, as in June?

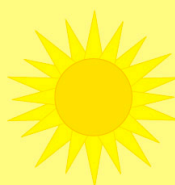


Light Angles



Look at the light hitting the wall at a 90-degree angle.

Draw a picture of it.  
Label it "Sketch #1"



Now look at the light from the flashlight when it is held at an angle. Draw a picture of this and label it "Sketch #2"

What happens to the brightness of the flashlight when it hits the wall at different angles?

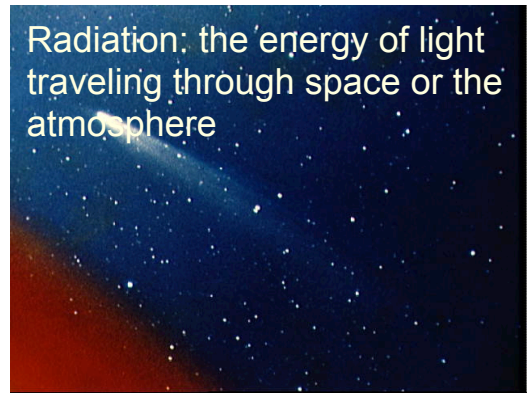


<sup>1</sup> When the beam hits the wall directly, the energy of the light on the wall is \_\_\_\_\_

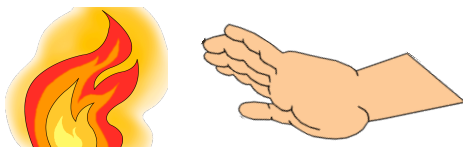
<sup>2</sup> When the beam hits the wall at an angle, the energy of the light on the wall is

\_\_\_\_\_

Radiation: the energy of light traveling through space or the atmosphere



Energy from the Sun arrives here in about 8 minutes. Any object that is warm or hot emits energy that you can feel with your hand. The energy moves to your hand by radiation. You can feel this by placing your hand next to any hot object



Draw a simple picture of the desk lamp. Use a large arrow to show the direction that energy radiates from the lamp.



