

A photograph showing the lower half of a person in a dark suit standing on a stone-paved surface. The person is casting a long, dark shadow to their left. The paving stones are arranged in a herringbone pattern. The lighting is bright, creating high contrast between the shadow and the ground.

Study*ladder*

Why do shadows
change?



Objects cast a shadow when they are in the light. Sometimes the shadow is big and sometimes there is very little shadow at all.

When you are outside, the light source is the sun. The type of shadow you will see depends on where the sun is in the sky.

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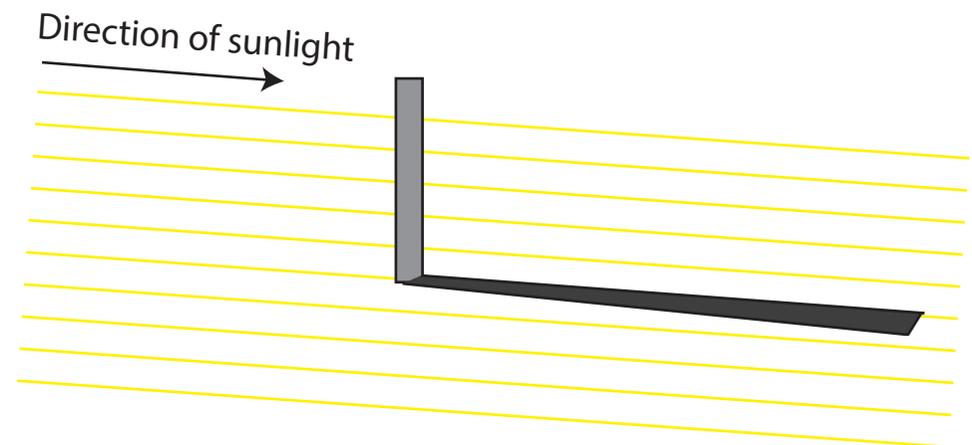




Why do shadows form?

Light travels in a straight line. If a solid object gets in the way the light is blocked. The area behind the object gets no light so it is darker. A shadow forms.

You can always tell where the sun is if you look at shadows on the ground. If the sun shines on one side of an object the shadow will be cast on the other side.





Where do you think the sun is in this picture?



Look at the shadow of this tree. Where do you think the sun is now? Studyladder



What happens to shadows when the sun is low in the sky?

**Long
or
short
?**

At what
times of
the day
do you
think
shadows
will be at
their
longest?

When will
they be at
their
shortest?

Light and Shadows

