

Science

Light

WALT: understand how shadows change in size.

Light and Shadows



Light travels from its source in a **straight line** in the form of **rays**. When light is blocked by an object at some distance, a shadow is formed behind the object.



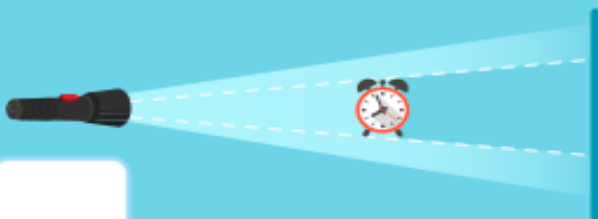
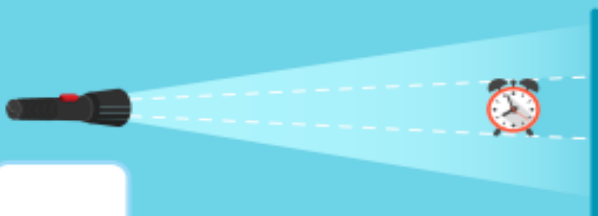
The closer an object is to a source of light, **the bigger** its shadow is.



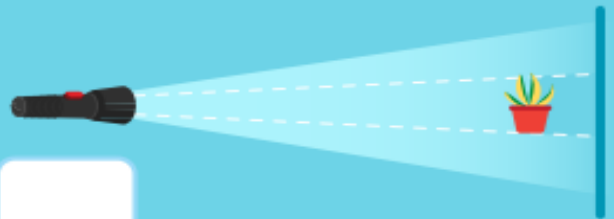
The farther an object is from a source of light, **the smaller** its shadow is.

Answer the questions. Check the correct boxes.

1. In which position will the clock cast the biggest shadow?

☐☐☐

2. In which position will the cactus cast the smallest shadow?

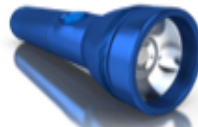
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Challenge

Find a torch and pencil. See what shadows are produced when you move the torch (does the size change? shape?) Draw on the picture below what the shadow looks like in the different positions.



Torch high up



Torch low down



Pencil close



Torch far away

