

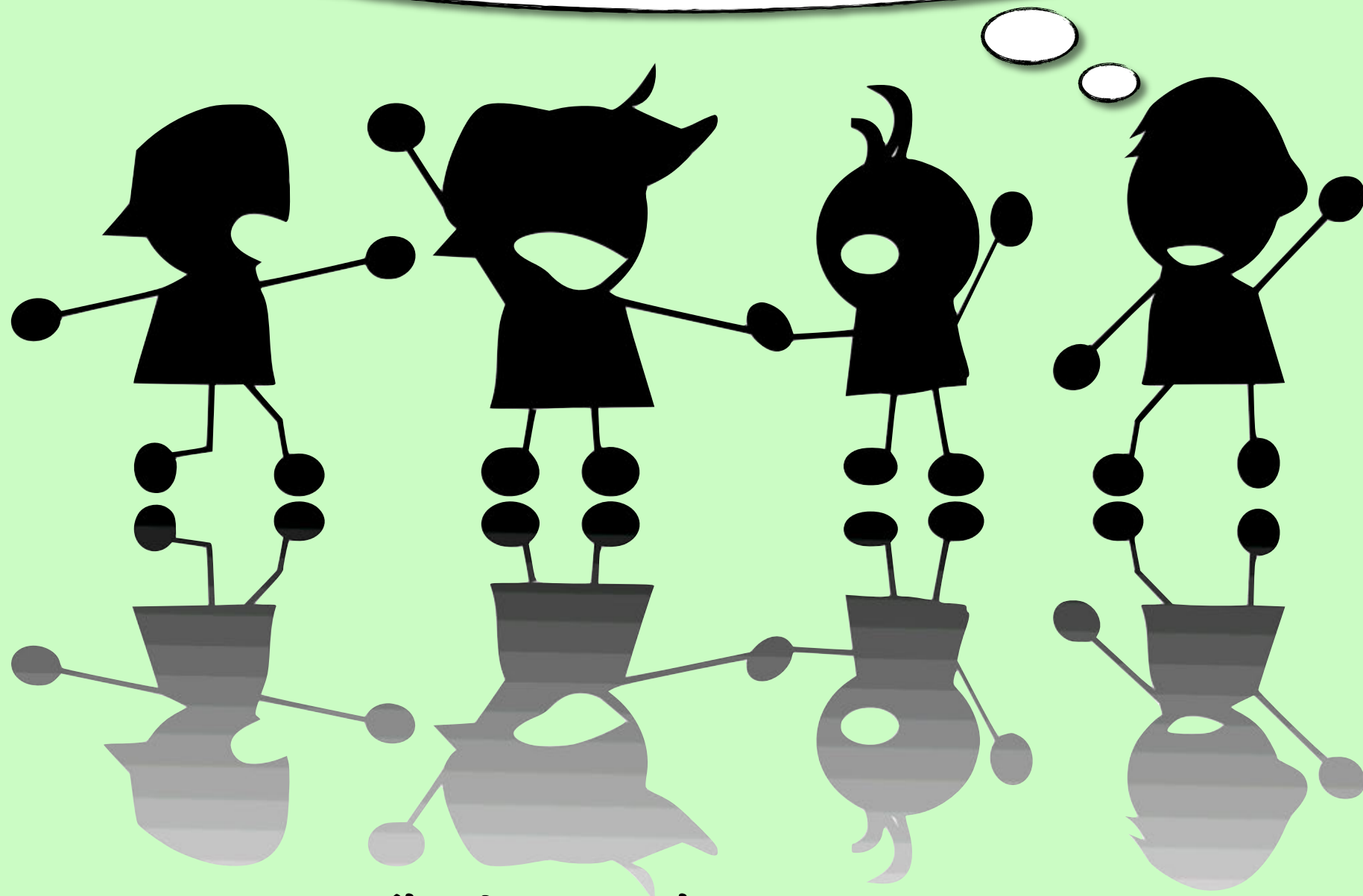
Seeing Light

Learning Objective:

To review understanding of light and shadow and to explore how light travels.



**What are shadows and how
are they formed?**

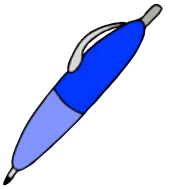


Think, pair, share your ideas.

Light always travels from a source. How many light sources can you think of?



Light sources:



Which of these light sources are natural and which are man-made?



These pictures all show examples of light sources...apart from two. Some objects reflect light even though it looks like they produce light. Can you spot two of them?



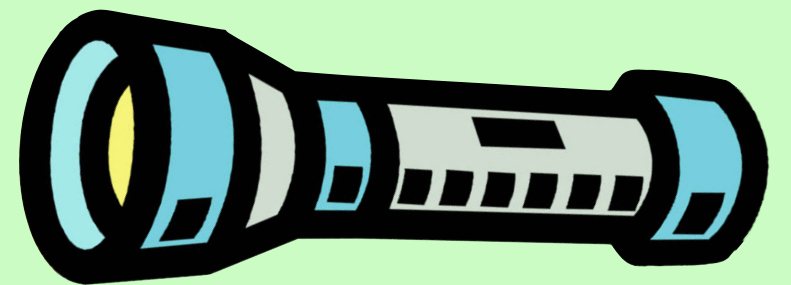
Did you guess correctly?



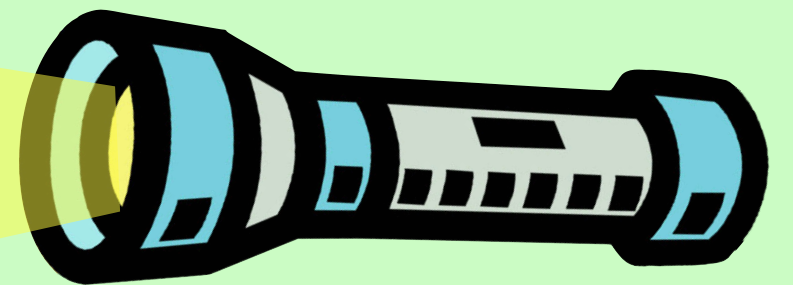
Even though they look like light is coming from them, it is actually being reflected by the sun. Because water is smooth, it easily reflects sunlight. As the water moves it looks as though it is sparkling because of the way the light hits it. The moon reflects the sun, depending on the moon's position. This is why the moon looks like it is changing shape over the course of a month. The part of the moon you can't see is in shadow.



What will happen when the torch is switched on?



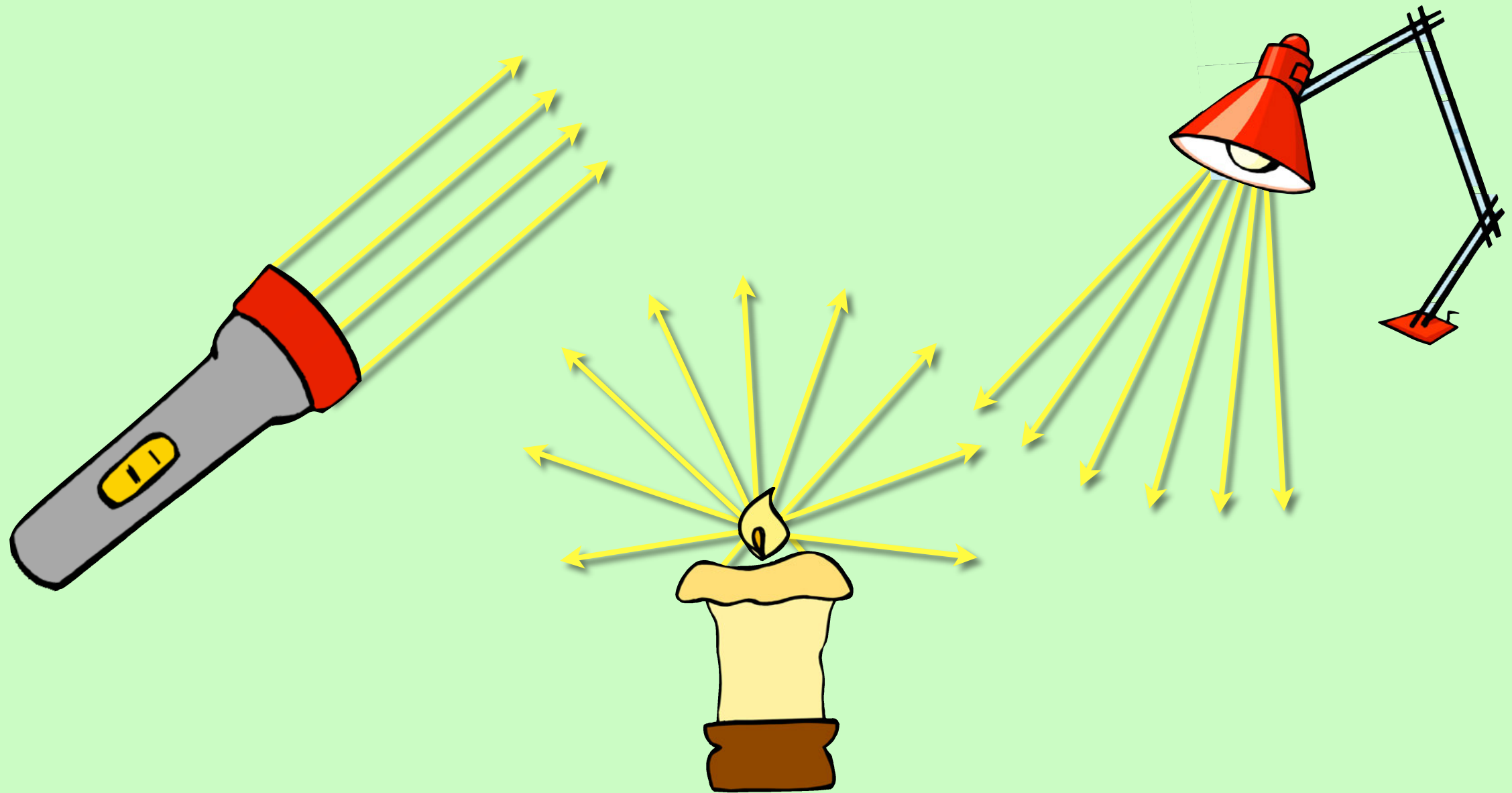
Can you draw on the shadow cast by the torch beam?



Would all objects cast a shadow if they were put in the place of the teddy?



Light travels from a SOURCE and it always travels in a straight line. Light cannot bend or turn around corners.



If an object blocks the light's path, it will form a shadow. It does not bend around the object.

