

# Reflections

## The Science Behind the Experiment – A Guide for Adults

Everything that does not produce its own light does reflect light to some extent; if it didn't you wouldn't be able to see it. However, only very smooth surfaces reflect light in the way that produces a reflection. Rough surfaces reflect the light in all different directions, which causes the light to get scattered and does not produce a reflection. Smooth, shiny surfaces reflect the light rays parallel to each other; this produces an image – the reflection.

## Science Experiment

### Reflections

Which objects do you think you will be able to see your reflection in?

What is the same about these objects?

Why do you think you can see your reflection in these objects?

Why do you think you can't see your reflection in these objects?

