

## Light and Shadows Lesson 4

L.O. To investigate mirrors

Please collect as many different mirrors and shiny surfaces you have at home as possible.

PLEASE REMEMBER TO BE SAFE WITH GLASS

### Activity 1

Using a variety of mirrors/ shiny surfaces- make-up mirrors, shaving mirrors and spoons. Describe what you see and to note any differences.

Discuss the fact that some reflections look the same size as the object being reflected while others look bigger or smaller. Record your results in the table drawn into your exercise book.

**What do reflections in different mirrors look like?**

Look at your reflection in different mirrors. Write what the reflection looks like.

Type of mirror	What the reflection looks like

Look at your reflection in a plain mirror and observe closely when you do the following: smile, close one eye (wink) close the other eye, hold up one hand then hold up the other, scratch your nose with one hand then the other.

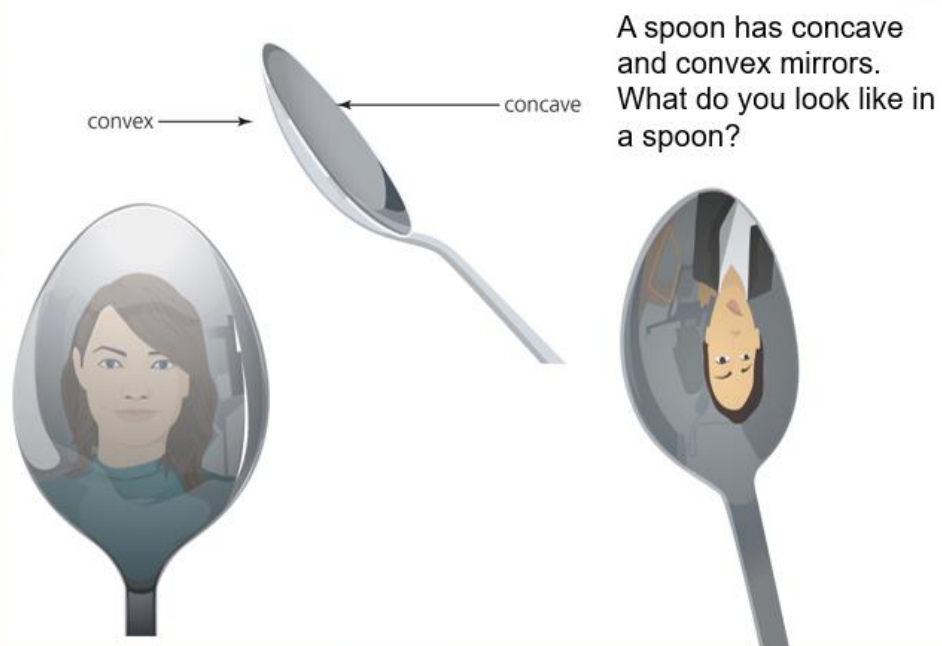
The reflection is the wrong way around!!

Remind children that they can see themselves in the mirror and not in, e.g. a carpet or their school jumper. Listen for explanations that show that they know that the surfaces of shiny objects are good at reflecting light and therefore we can see the object in the mirror. Dull surfaces do not reflect light like a mirror and therefore we cannot see our reflection.

### Activity 2

# Concave and convex mirrors

SWITCHED ON  
Science  
Second Edition



Have a look at the reflections on a spoon. Does a convex or a concave surface make a difference to what you can see?