

# Light



*Fill in the gaps with the correct answer for these important facts about light.*

- 1.) Light is made up of \_\_\_\_\_ colours. We see the colours that are \_\_\_\_\_ by an object.
- 2.) Light travels in a \_\_\_\_\_ line until it hits something.
- 3.) Smooth surfaces reflect light in \_\_\_\_\_ direction. Rough surfaces reflect light in \_\_\_\_\_ directions.
- 4.) Light travels very \_\_\_\_\_. Light travels \_\_\_\_\_ in air and water.



## Light Experiment

*What happens when you look at a picture through water?*

**Hypothesis:** (Guess what will happen):

I think that when I look at a picture through a glass of water the pictures will look \_\_\_\_\_ (same/different) because \_\_\_\_\_.

**Materials Needed:**

2 pieces of paper  
2 markers (Different colours)  
A clear glass  
Water

**Experiment Instructions:**

- 1) On one of your pieces of paper, use your markers to draw this:



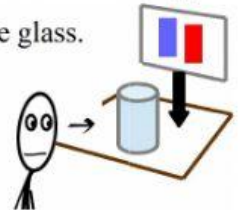
- 2) On the other piece of paper, use a marker to draw this:



- 3) Fill your clear glass with water and place it on the table. Stand in front of the glass and look through it.
- 4) Slowly lower your first paper down behind the glass of water and watch through the glass.

***WHAT HAPPENED?!?! 😲***

- 5) Now try it with your other drawing!



**Experiment Summary:**

Was your hypothesis correct? \_\_\_\_\_

When you looked at the pictures through the glass of water, did they look the same or opposite? \_\_\_\_\_

The pictures look \_\_\_\_\_ because of light \_\_\_\_\_.

***Want to watch this experiment?***

*Here are some links:*