

Scientist Name:

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Today Science Club are going to be.....

## REFLECTING LIGHT!

Light sources give out light. These include

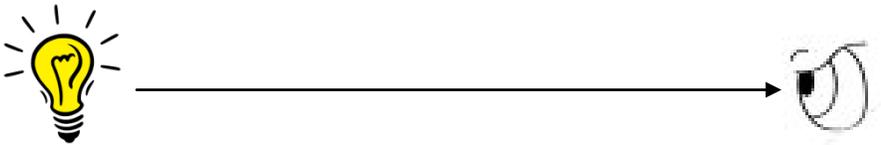
1) \_\_\_\_\_ 2) \_\_\_\_\_ 3) \_\_\_\_\_ 4) \_\_\_\_\_

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Some objects seem bright but they are only reflecting light from elsewhere. These include the **moon, planets, mirrors and shiny objects.**

### Seeing

You see an object that is not a light source when light bounces off the object and goes into your eyes.

Smooth, shiny objects reflect light better than dull, dark objects. What reflects light really well?  

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**Mirrors reflect light back at the same angle:**

Light travels really fast, in fact it travels 300,000,000 m/sec!

If you put a mirror in the right place, you can even see round corners.

We are going to use mirrors to reflect light to make KALEIDOSCOPIES (from [www.bakerross.co.uk](http://www.bakerross.co.uk)).**Note to parents:** We have made cardboard kaleidoscopes with plastic beads at the end. Any questions please email: [HassellScienceClub@gmail.com](mailto:HassellScienceClub@gmail.com)

## Light Quiz

1. Which are sources of light and which can you see because they reflect light? Put them in the following table: **stars, brick walls, plants, mirrors, planets, electric light, candle flame**

Sources of Light	Reflect Light

2. If you can **see through** something then it is said to be? \_\_\_\_\_
3. Light travels much quicker than sound, TRUE or FALSE?
4. Does light travel in wavy lines? YES/NO
5. What do you call an object that makes its own light? \_\_\_\_\_
6. How are shadows formed? \_\_\_when an object gets in the way
7. What can you see when you look in a mirror? \_\_\_\_\_
8. What describes a material that light cannot pass through? \_\_\_\_\_
9. What happens when light hits a reflective material?
- a. It passes through the material
  - b. It bounces off the material
  - c. It is absorbed
  - d. It forms a rainbow
10. A beam of light hitting a mirror at an angle is reflected off at:
- a. A smaller angle
  - b. The same angle
  - c. A larger angle
11. On a sunny day what time of day will your shadow be the shortest? \_\_\_\_\_
12. Are cats eyes (the embedded objects in the middle of a road) a source of light? YES/NO