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

REFLECTING LIGHT!

Light sources give out light. These include

1) ____________________  2) ____________________  3) ____________________  4) ____________________

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?

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 KALEIDOSCOPES (from 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
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**

<table>
<thead>
<tr>
<th>Sources of Light</th>
<th>Reflect Light</th>
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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 **R** can you see when you look in a mirror?________

8. What **O** 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**