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**.

Mirrors reflect light back at the same angle:

![Light rays and reflected light rays diagram](image)

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.

**Periscopes** use a **pair** of mirrors to allow you to see round an object easily. During WW1 school students made wooden and glass ones for soldiers to use in the trenches!

Which type of **boat** uses a periscope to see above the water?

Note to parents: We have made cardboard periscopes using plastic with reflective surfaces. Any questions please email: HassellScienceClub@gmail.com
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. How does light travel? ______________________

5. What do you call an object that makes it own light? ___ ______________________

6. How are shadows formed? ______________________

7. What R can you see when you look in a mirror? ______________________

8. What O describes a material that light cannot pass through? ________________

9. 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

10. On a sunny day what time of day will your shadow be the shortest? ________________