Light and Shadow

Amazing Fact
You can buy a torch which is 20 000 times brighter than a regular torch. It can be used to start fires, melt polystyrene and even fry eggs!

Do you know how light travels?
Select the missing words from the torch below and fill in the gaps.

Challenge 1
Do you know how light travels?
Select the missing words from the torch below and fill in the gaps.

Light travels in_________________lines from a___________________of light, which bounces off an object. We can see the object because the_________________enters our eyes.

Wood and cardboard are_________________objects, which light cannot travel through.

_________________is a___________________material which allows light to pass through. Tissue paper is_________________which will let some light travel through. When an object blocks out the_________________, a_________________is formed. Shadows are_________________at midday and_________________at the end of the day.
An Amazing Fact a Day

**Light and Shadow**

### Challenge 2

Sort the materials into 3 groups: opaque, transparent and translucent.

<table>
<thead>
<tr>
<th>Transparent</th>
<th>Opaque</th>
<th>Translucent</th>
</tr>
</thead>
<tbody>
<tr>
<td>paper</td>
<td>ice cubes</td>
<td>window</td>
</tr>
<tr>
<td>pencil</td>
<td>sandwich bag</td>
<td>glass bottle</td>
</tr>
<tr>
<td>sticky tape</td>
<td>chair</td>
<td>tin can</td>
</tr>
</tbody>
</table>

You could also try to find out:

- what the brightest light on Earth is;
- how far searchlights can cast their beams;
- how far your torch at home will shine;
- about the relationship between light and heat.