

Light

1. True or false?

- ★ Light is a form of energy
- ★ Light travels at 100,000km per second
- ★ Light always travels in straight lines
- ★ Light is formed of 10 different colours
- ★ To see all the different colours of light, we have to bend the light
- ★ If an object is transparent, it reflects a lot of light
- ★ Red objects reflect all the colours except red
- ★ Black objects reflect all the colours
- ★ Black objects heat up more in the sun than white objects
- ★ If all the rays of light bounce off of an object in the same direction, we can't see the object
- ★ We can see a clear reflection in a lake on a windy day
- ★ Rough surfaces do not produce clear reflections

2. Explain why we can see a clear reflection in photo A but not in photo B

A



A clear reflection is produced because ...

B



There is no reflection because ...

3. Explain how this rainbow is produced (choose the correct sentence)

- ☐ The rays of the sun are very strong
- ☐ The light is travelling faster than normal
- ☐ The drops of rain bend the rays of light
- ☐ The wind moves the light

