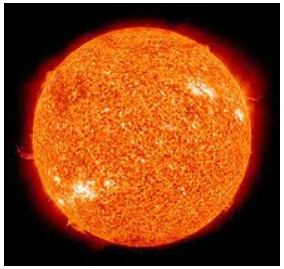
Last lesson:

Light source?Why?



Last week:

Light source?Why?

Last topic:

What is this symbol?

Last half term:

What is this symbol?

What is a Light Source?

Light is a form of energy which our sense of sight can detect form. It travels in waves, like sound. It is made of electro-magnetic radiation and travels in a straight path.

A light source produces this form of energy.

The light we can see, which is called visible light, is part of the electromagnetic spectrum. The electromagnetic spectrum includes radio waves, microwaves and x-rays.

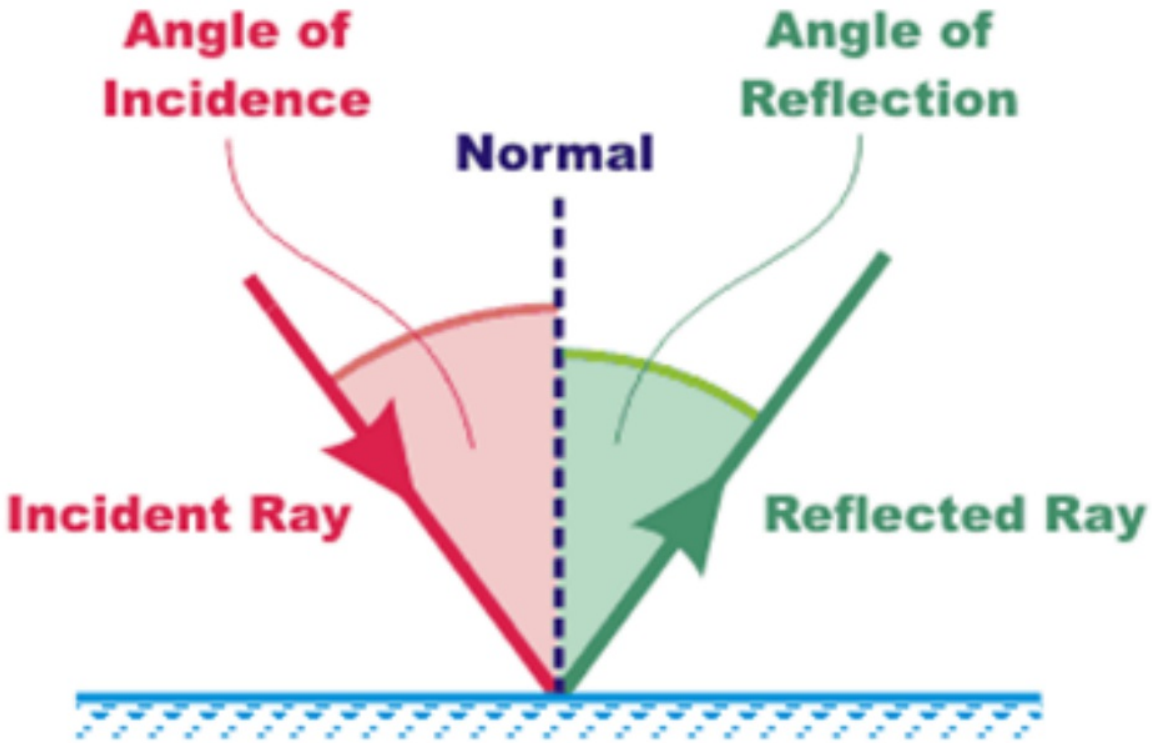
Which is the odd one out?

Is there more than one answer?

Can you explain your reasoning using scientific language?

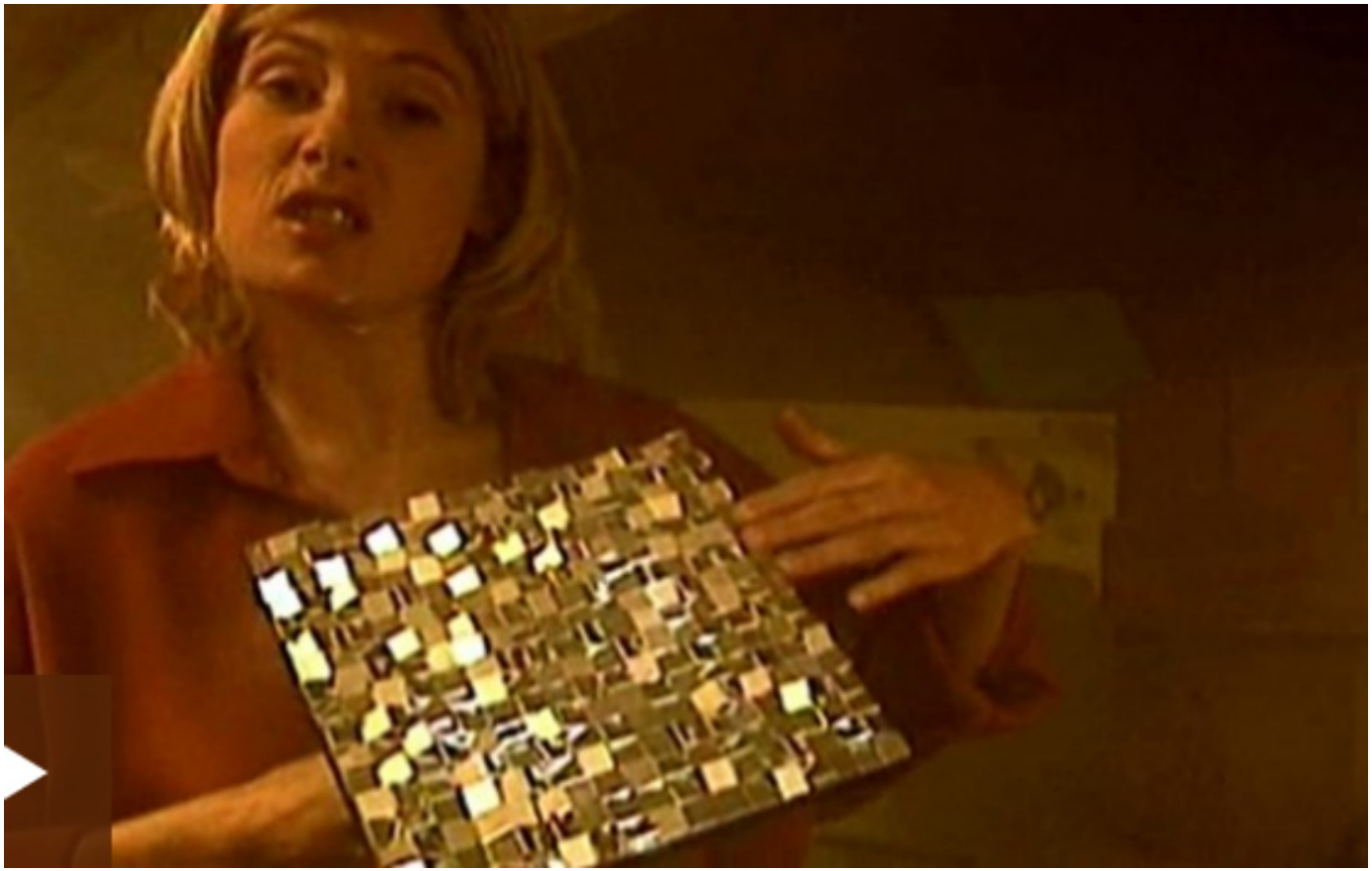
22.4.21

How does light travel?



What does this diagram suggest?

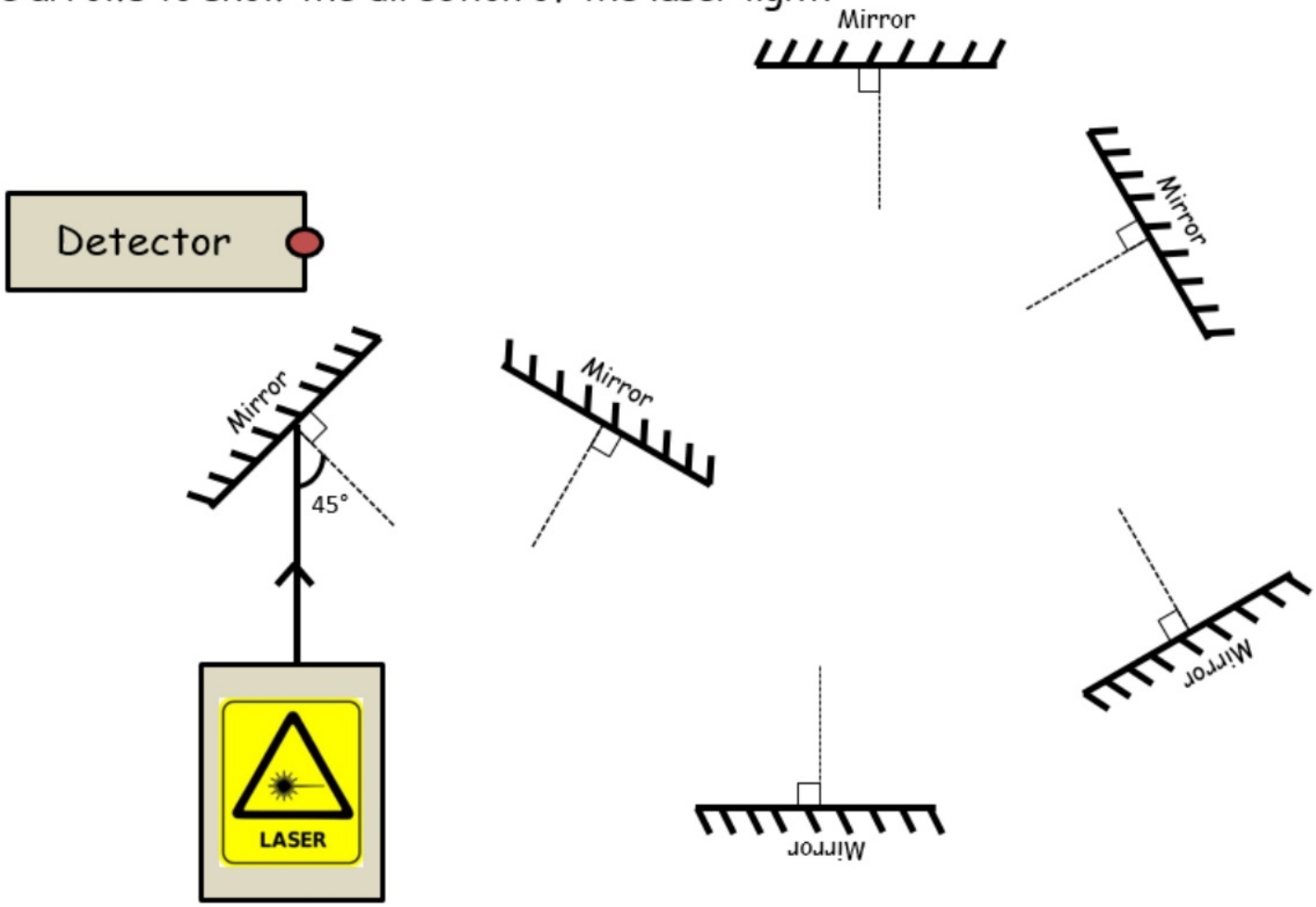
How could we test this?



Mirror maze

Can you work out the reflections and show the path of the laser light to the detector?

- Not all mirrors are used.
- Write on the angles of incidence and reflection
- Use arrows to show the direction of the laser light.



Answers

Mirror maze

Thursday 22nd April

How does light travel?

P - I have discovered that light travels in ……

E - Using a mirror ….

E - When light hits a mirror …..

L - This explains why…..

Light travels in the **straight line** because it **does** not generally interact with the medium and wherever it interacts it **does** change its **path** like when it is entering a different medium with different permeability and permittivity(denser or rarer). This interaction and bending of **light** is called refraction.

The Electromagnetic Spectrum