

To understand reflection

- **Know what reflection means.**
- **Identify reflective materials.**
- **Show how reflection helps us see.**

Vocabulary

What does the word reflection mean?

Use a dictionary

Do all objects
reflect light?
How do you
know?

Vocabulary

Reflect – A body that throws back heat, light or sound without absorbing it

What is reflection?

<https://www.bbc.com/bitesize/articles/zqdx82>

What is reflection?

Reflection is when light bounces off a surface, changing the direction of a ray of light.

All objects reflect light; smooth and shiny surface reflect all the rays of light at the same angle, rather than scattering the rays of light like rough or dull surfaces.

Challenge!

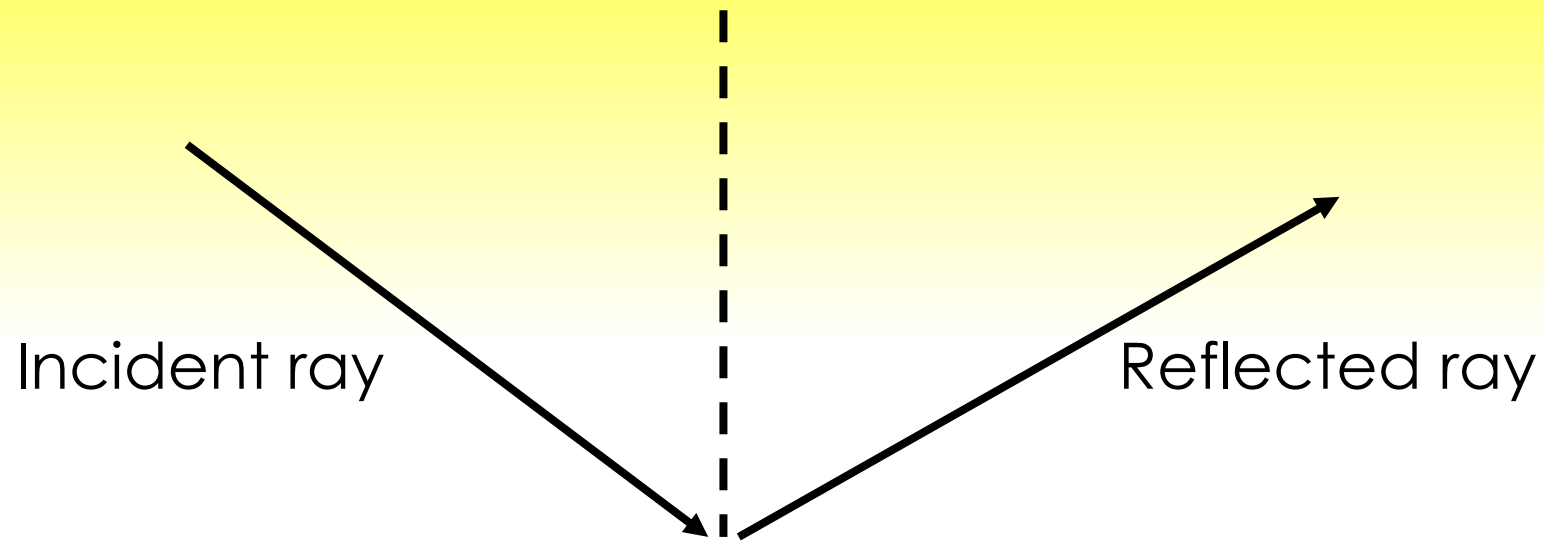
Use a piece of paper, card, mirror and torch to prove the law of reflection.

Cut a slit in the piece of card

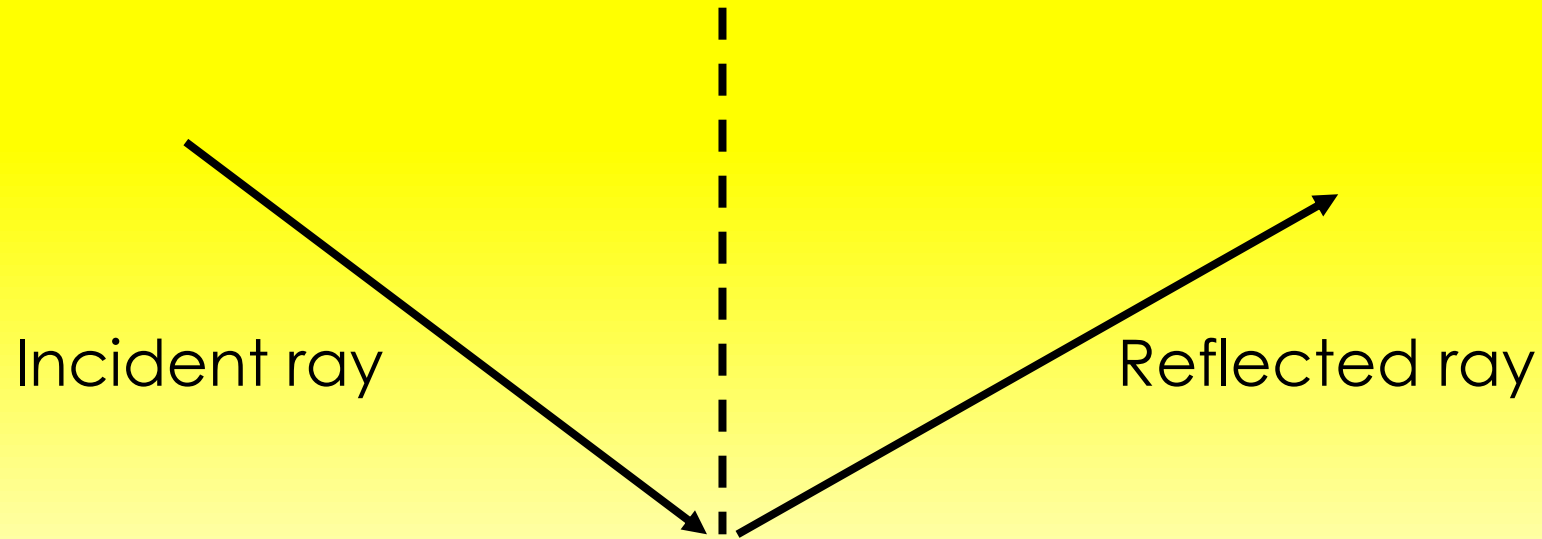
What does your model show about the angles of light?

Reflection

The light ray that hits the mirror or object is described as the incident ray. The ray of light that bounces off is known as the reflected ray.



Reflection



When rays of light reflect, they obey the law of reflection: The angle of incidence always equals the angle of reflection.

Light

How is light travelling to enable the boy to see the computer behind the wall?

Mirror

Remember light travels in straight lines

Explain the importance of the mirror in being able to see the computer. Why would he not be able to see it without the mirror?

Boy

Wall

Computer

Reflective Materials

<https://www.bbc.com/bitesize/clips/ztcg9j6>

Reflective Materials

Can you name any materials that are particularly reflective?

Are there any materials you know that aren't very reflective?