

# Year 3 Science

# Light

I can notice that light is reflected from surfaces.



# Thinking Time...

Talk to your partner about the word **reflect**.

What does it mean?

Can you put it in a sentence?

How does it link to our light science topic?

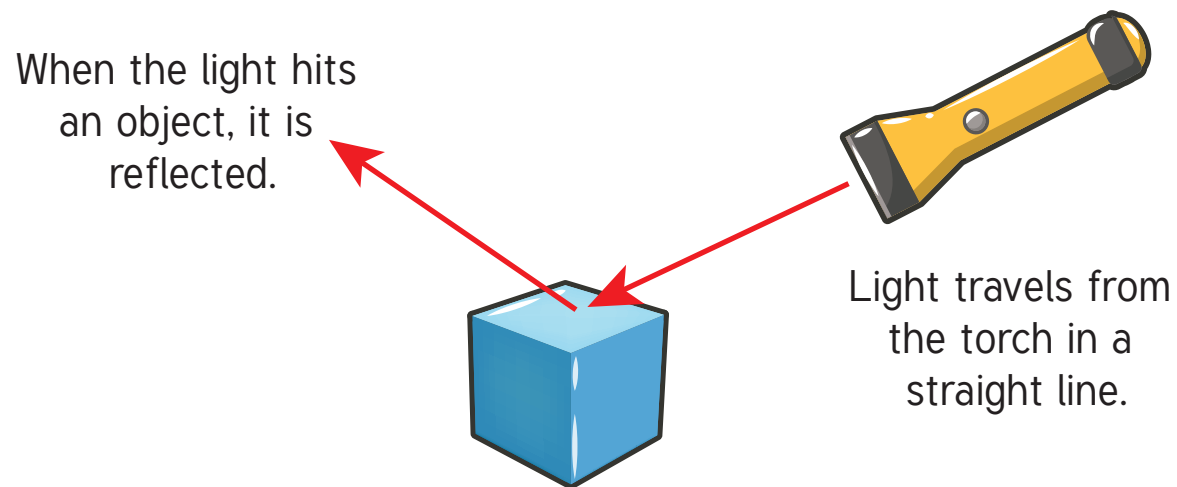


# Reflective Light

We can see things because light is reflected. Some materials reflect light better than others.

Light travels in straight lines. When light from an object is reflected by a surface, it changes direction.

Smooth, shiny surfaces such as mirrors and polished metals reflect light well. Dull and dark surfaces such as dark fabrics do not reflect light well.



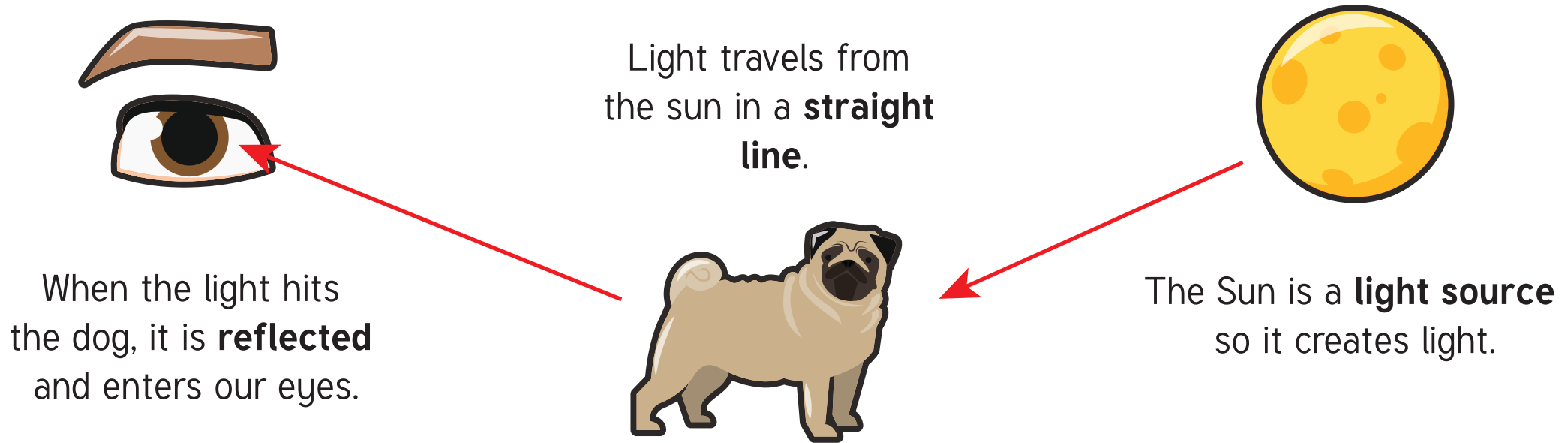
## New Word Alert!

**Reflect** – to bounce back without absorbing it.

## Did you Know?

Light **ALWAYS** travels in straight lines. It cannot bend. That is why we cannot see around corners!

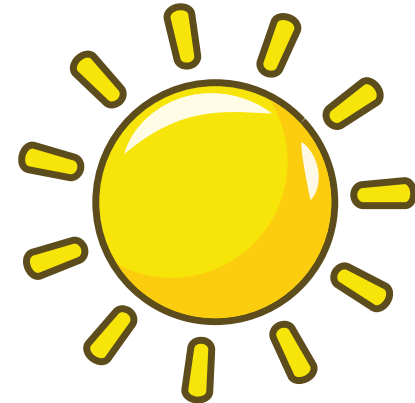
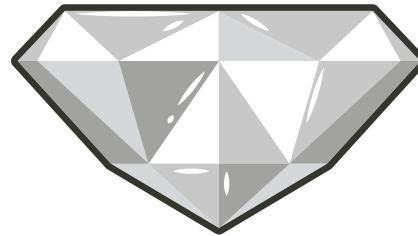
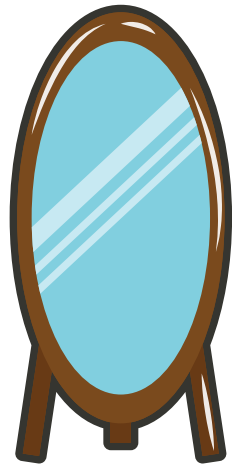
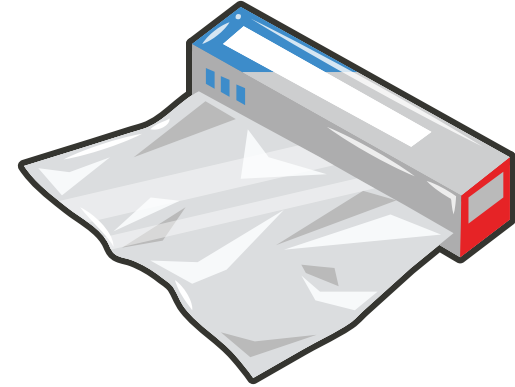
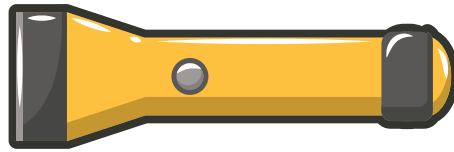
# How we see



**When light hits an object, it is reflected (bounces off) and enters our eyes. This is how we see the object.**

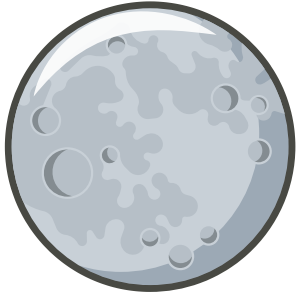
# Reflective Surfaces and Light Sources

Look at these objects. Are they light sources or do they reflect light?



# Reflective Surfaces and Light Sources

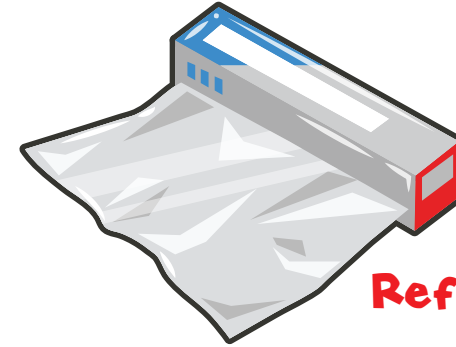
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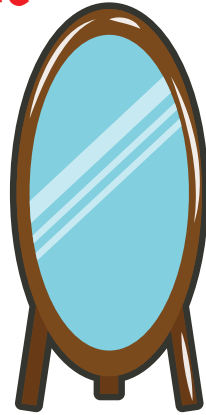
**Reflect Light**



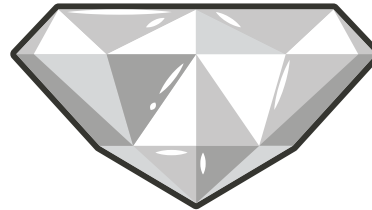
**Light Source**



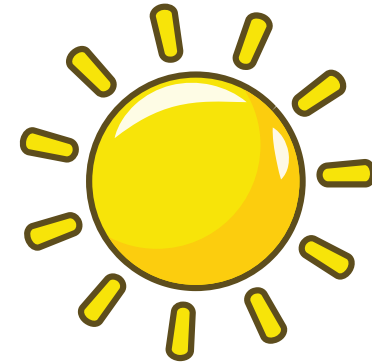
**Reflect Light**



**Reflect Light**



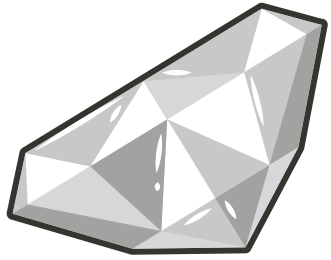
**Reflect Light**



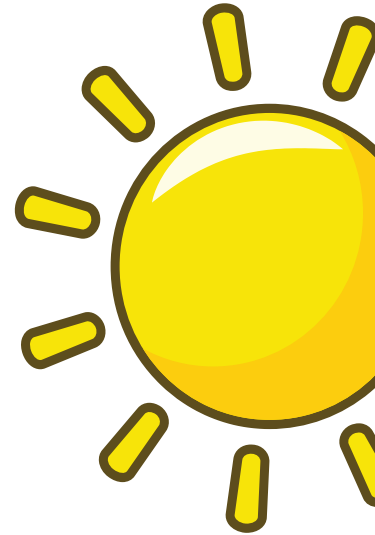
**Light Source**

Did you get them all correct?

# Shining Things



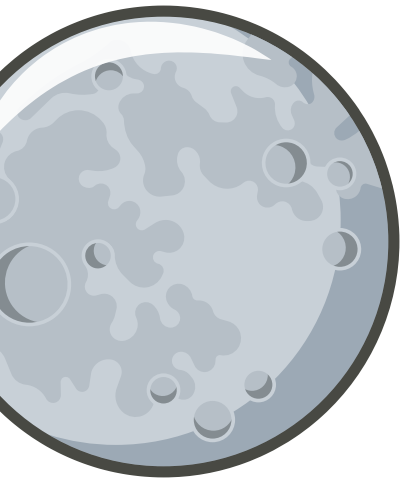
A poet named **Elizabeth Gould** wrote a poem about **Shining Things**.



Read it through with a partner.

Underline all the **reflective objects** in **blue**.

Underline all the **light sources** in **red**.



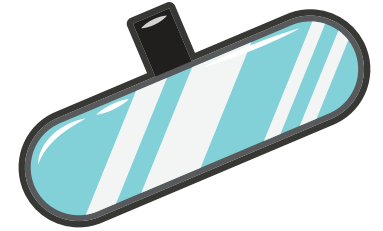
We will then discuss it as a class.



# Reflective Materials in Real Life!

Reflective surfaces can be very useful.

- Mirrors inside cars reflect light to help drivers see objects behind them.
- Reflective strips on clothing and bikes help cyclists to be extra visible at night.
- 'Cat's eyes' on the road reflect light from car headlamps to help the driver see the road at night.



**Can you think of any other uses for reflective materials?**

Look at the picture on the next slide.

**Can you see any reflective materials being used?**





# Independent Activity

Today you are going to design a poster to encourage younger children to wear something reflective when they are outside.

## **You could create your poster about;**

- walking home from school on a winter day
- taking the dog out for a walk in the early morning,
- riding bikes in the evening time(more than just bike lights)
- Or another scenario you can think of!

# Sharing Time

Read through your partner's poster.

Tell your partner **1 good thing** about their poster and **1 thing they could improve**.

