How Do We See Things?

Light's straight journey to your eyes



Created with LessonDino.com · AI lesson planner with checkable sources

Today we will...

WE ARE LEARNING TO

- Learn that light travels in straight lines
- Explain seeing as light entering the eyes

SUCCESS LOOKS LIKE

- ✓ I can draw straight arrows for light
- ✓ I can explain luminous and non-luminous objects



Created with LessonDino.com · AI lesson planner with checkable sources

Key words for today

Luminous

Gives out its own light.

Non-luminous

Does not give out light.

Reflect

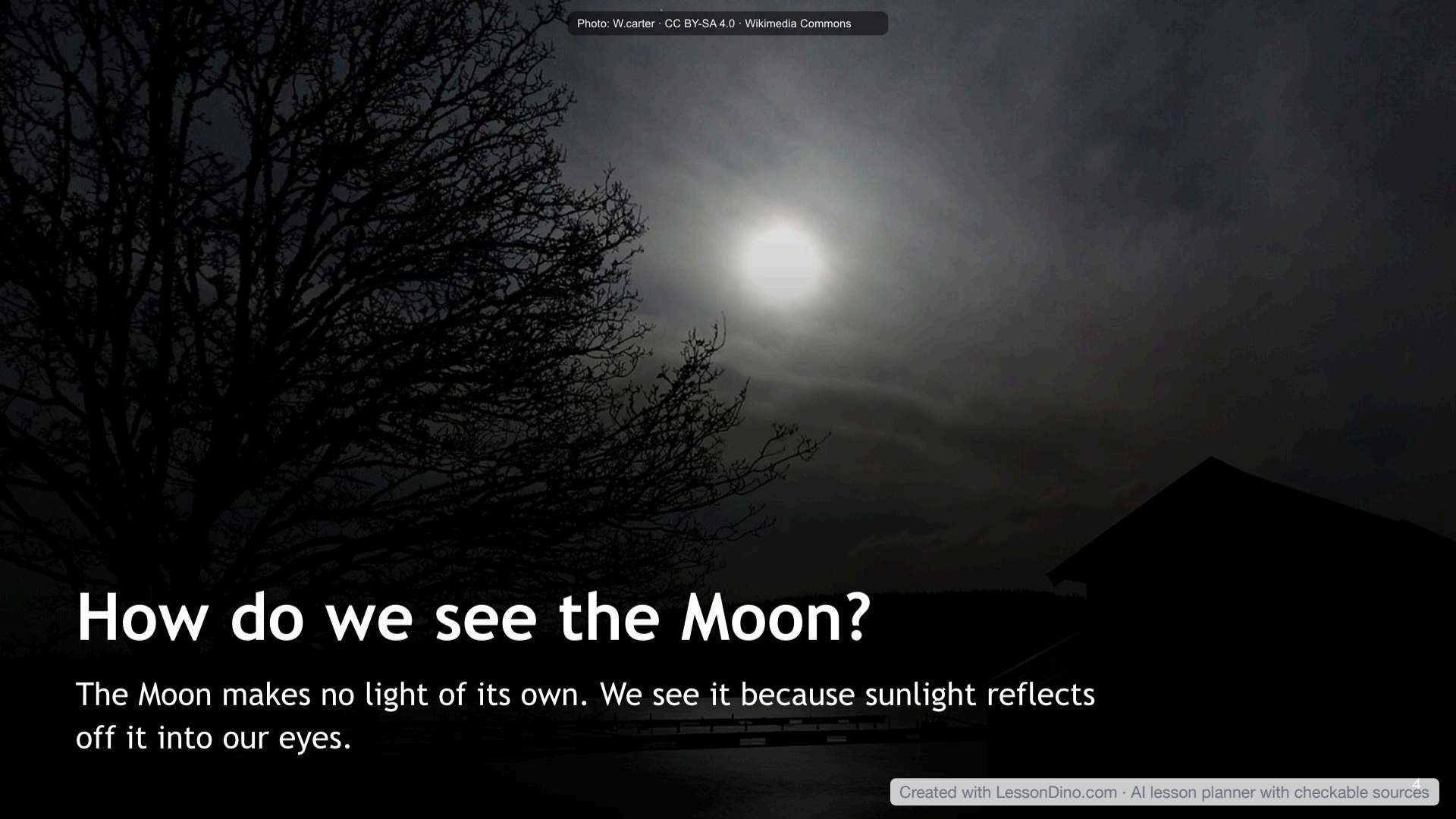
Light bounces off a surface.

Pupil

Hole at front that lets light in.



Created with LessonDino.com · AI lesson planner with checkable sources



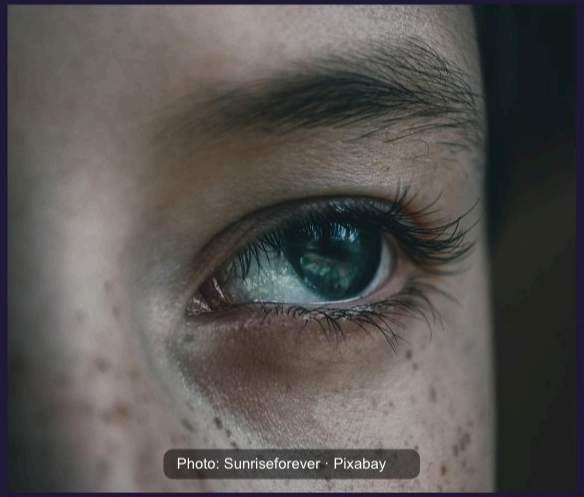
How do we see the Moon?

The Moon makes no light of its own. We see it because sunlight reflects off it into our eyes.

Created with LessonDino.com · AI lesson planner with checkable sources

What could this be?

Why does this black circle get bigger in a dark room?





Created with LessonDino.com · AI lesson planner with checkable sources

Light straight into our eyes



▶ 0:00 – 1:33

- Watch which way light travels
- Spot what must enter the eye



Created with LessonDino.com · AI lesson planner with checkable sources

Two ways we see

Luminous

- Gives out its own light
- Light goes straight to eye
- E.g. Sun, torch, lamp

Non-luminous

- Makes no light of its own
- Reflects light to eye
- E.g. book, desk, Moon



Created with LessonDino.com · AI lesson planner with checkable sources

Seeing things that do not glow



▶ 0:00 – 1:06

- Watch light bounce off the object
- Follow straight lines to the eye



Created with LessonDino.com · AI lesson planner with checkable sources

Your task

Draw ray diagrams on mini-whiteboards to show how you see three objects.

1. Draw a lit torch, a book and a mirror.
2. Use straight arrows to show light.
3. End each diagram with a line into the eye.

15 min

In pairs



Created with LessonDino.com · AI lesson planner with checkable sources

Light's journey to your eye

1. Light leaves a light source.
2. It travels in straight lines.
3. It reflects off an object.
4. It enters your eyes.



Created with LessonDino.com · AI lesson planner with checkable sources

Think, pair, share

Why can you see your partner now, but not in a completely dark room?



Created with LessonDino.com · AI lesson planner with checkable sources

True or false?

Light travels in straight lines.

We see the Moon because it makes its own light.

Light must enter your eyes for you to see.

Only shiny things reflect light.



Created with LessonDino.com · AI lesson planner with checkable sources