Name & Surname: _____ Class: _____ Date: _____

How We See Things

Light travels straight into our eyes

About 35 minutes Level ★★★☆☆



Seeing Needs Light

We see only when **light** enters our **eyes**. Some things make light. Most things bounce light to us.

- **Light** travels in straight lines, shown by straight arrows.
- **Luminous** objects give out their own light, like the Sun and a switched-on torch.
- **Non-luminous** objects make no light. We see them because they reflect light into the eye.
- Light enters through the **pupil** and is detected by the retina at the back of the eye.
- Never look straight at the **Sun**. It can damage your eyes, even with dark glasses.

Draw it

Task A

Explain why you can see this book. Keep asking why to go deeper.

A book on a table in a bright room can be seen.

Why? A lamp shines light onto the book

Why?

Why?

Why?

Why?

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Shine and Bounce

Use new words to explain seeing to others.

Key words

luminous: gives out its own light

reflect: bounce light off a surface

pupil: hole in the front of the eye

non-luminous: makes no light of its own

straight lines: light does not bend or curve

retina: back of the eye that finds light

Task B

Write a short letter to explain seeing to younger pupils.

Date: _____

Dear Year 5,

Say how light travels and what luminous means

Explain how we see the Sun and how we see a book

Warn what never to do and sign off

Yours sincerely, _____

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Draw Light Paths

Show light moving in straight lines.

Task C

Draw straight arrows to show light going into the eye.



A torch shines on a ball, then light reflects to the eye.

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Fact or Opinion

Check ideas about light and seeing.

Task D

/3

Answer in short sentences using light ideas.

1. Why can you see a switched-on torch in a dark room? Use **light** and **eyes**.
   I can see it because...
2. Why can you NOT see a chair in a totally dark room? Use **reflect**.
   I cannot see it because...
3. The Moon makes no light. How do we see it? Use **Sun**.
   We see it because...

Task E

/5

Tick fact or opinion. A fact can be checked. Then say how you know for one.

Statement	Fact	Opinion
Light travels in straight lines.		
The Sun gives out its own light.		
Torches are the coolest light sources ever.		
We see the Moon because sunlight reflects off it into our eyes.		

How can you tell that one of them is an opinion?

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Words and Numbers

Finish with key words and a class chart.

Task F

Example done for you

/5

Fill the gaps using this word bank: straight, luminous, non-luminous, reflect, eyes, pupil. Say each sentence aloud.

~~straight~~ | reflect | Luminous | pupil | non-luminous | eyes

Light travels in straight lines. _____ objects like the Sun give out light. Most objects are _____ and we see them because they _____ light into our _____ through the _____. Never look directly at the Sun.

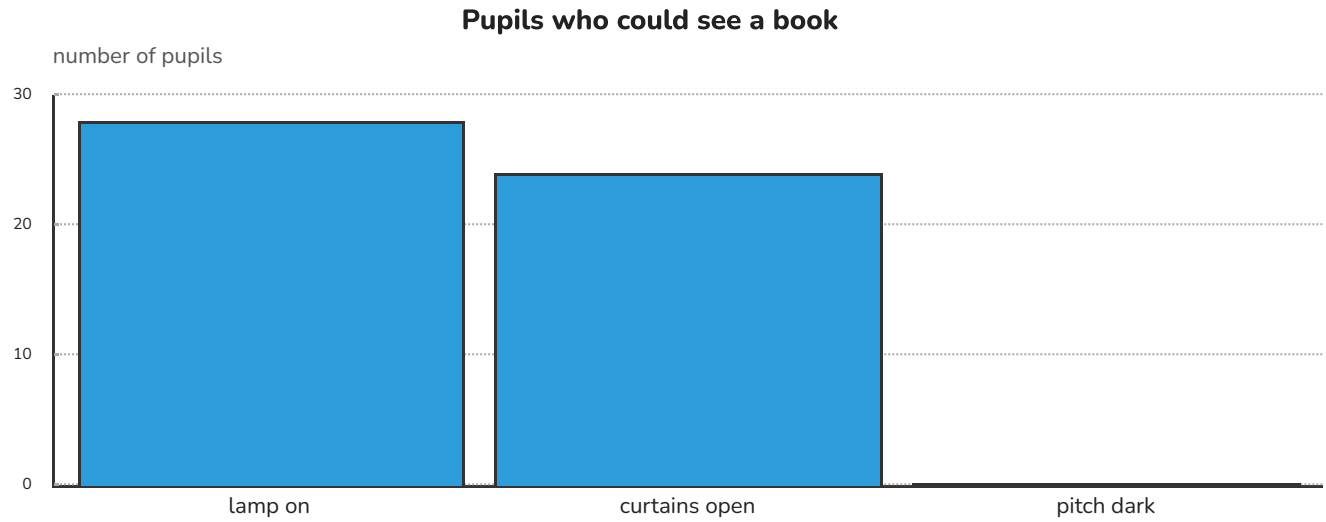
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How We See Things

Task 6

/3

Study the class results and answer about darkness.



1. Which condition let the most pupils see the book?

2. Which condition let the fewest pupils see the book?

3. What does the chart tell us about light and seeing?

How did I do?

Circle a face for each line.

I can explain that light travels in straight lines into the eye.	☹ 😐 ☺
I can say the difference between luminous and non-luminous objects.	☹ 😐 ☺
I can draw straight arrows to show how we see things.	☹ 😐 ☺

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Answer sheet: How We See Things

Task A

Answers will vary, e.g. A lamp shines light onto the book; The book reflects light straight into your eyes

Task B

Answers will vary.

Task C

Answers will vary.

Task D

1. It is luminous. Light travels in straight lines from it into my eyes.
2. There is no light to reflect off the chair into my eyes. It is non-luminous.
3. Light from the Sun travels in straight lines, reflects off the Moon and into our eyes.

Task E

1. Fact
2. Fact
3. Opinion
4. Fact

Task F

Light travels in [STRAIGHT] lines. [LUMINOUS] objects like the Sun give out light. Most objects are [NON-LUMINOUS] and we see them because they [REFLECT] light into our [EYES] through the [PUPIL]. Never look directly at the Sun.

Task G

1. lamp on
2. pitch dark
3. We need light to see. With no light, nothing reflects into our eyes so we see nothing.

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