

Nova's Light and Reflection Flashcards

Learning objective: To understand the properties of light, how shadows are formed, and the importance of reflection.

Read the front of the card to test your knowledge about light. Flip the card to check your answer. Use these to revise for your science assessment!

What is a light source?	What is the name for an object that lets no light pass through it?
An object that makes its own light, such as the Sun, a torch, or a candle.	An opaque object.
How is a shadow formed?	What does 'transparent' mean?
A shadow is formed when an opaque object blocks the path of light.	It means a material allows light to pass through it easily, like clear glass.
What is reflection?	Why does a shadow change size?
Reflection happens when light bounces off a surface, like a mirror or shiny metal.	The shadow changes size depending on the distance between the light source and the object.
What is a translucent material?	True or False: We need light to see objects.
A material that lets some light through, but scatters it, like frosted glass or tracing paper.	True. Light reflects off objects and enters our eyes.
Which surface would produce the best reflection: a mirror or a piece of cardboard?	What is the danger of looking directly at the Sun?
A mirror, because it is smooth and shiny.	It can cause permanent damage to your eyes. You should never look directly at the Sun.
What happens to light when it hits a surface?	Nova wants to see her reflection. What should she look at?
It can be reflected (bounced back) or absorbed.	A smooth, shiny surface like a mirror or a pool of still water.