

Light: natural and artificial sources, and how we see

energy-forces

What you need: torch · white screen or large sheet of white paper · clear plastic sample (cut from a clear document wallet) · tissue paper sample · baking paper sample · thin fabric scrap · cardboard sample · aluminium foil sample · light-source cards (sun, fire or candle, stars, electric lamp, torch, phone or tablet screen, interactive whiteboard, bicycle light) · sorting trays or floor labels for Natural and Artificial · word cards transparent, translucent and opaque (with sample phrases clear bright patch, soft glow, dark patch) · Investigation Journal page

Words to use

Natural light source · Artificial light source · Transparent · Translucent · Opaque

Our question

Which materials let torchlight through to the screen, and how much?

I predict...because...

Words to sort

the sun · a fire or candle flame · stars · an electric lamp · a torch · a phone or tablet screen · the interactive whiteboard · a bicycle light

Sort each light source as natural or artificial using the board rule.

natural	artificial

What each material did to the torchlight

Material	What the screen looked like	transparent, translucent or opaque

Which materials let the most light through?

Which blocked the light?

Was any prediction different from what you saw?