



See-through materials

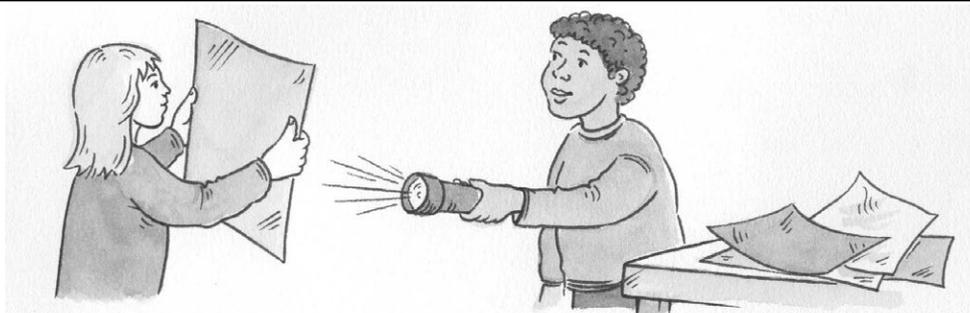
Background knowledge

Materials that you can see through, such as glass, are called *transparent* materials. They allow light to pass through them. Materials that you cannot see through, such as steel or concrete, are called *opaque*. Light cannot pass through these materials. Some materials allow some light to pass through them, but the objects on the other side do not appear very clear. These materials are called *translucent*. Wax paper is one translucent material.

Science activity

Fill in the missing words in the table.

Material	Can you see through it?	Can you see the flash-light's light through it?	Scientific description
Aluminum kitchen foil	No	.....	Opaque
Kitchen film-wrap	Yes	Yes	.....
Greaseproof paper	No	Yes	.....
Tissue paper	.....	.....	Translucent
Cardboard	No	No	.....
Polythelene bag	.....	.....	Translucent



Science investigation

⚠ **Take extra care - ask an adult to supervise you.** First, design and conduct an experiment to see what happens to the transparency of water when it freezes. Next, design and conduct an experiment to classify materials found around your home as transparent, translucent, or opaque. Use data tables to summarize your findings.





See-through materials

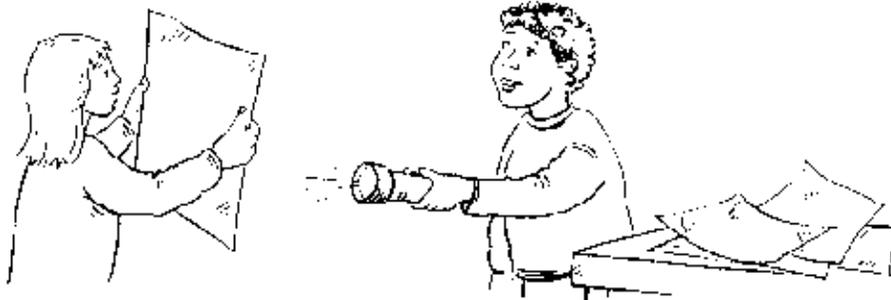
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Science activity

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Material	Can you see through it?	Can you see the flash-light's light through it?	Scientific description
Aluminum kitchen foil	No	No.....	Opaque
Kitchen film-wrap	Yes	Yes	Transparent
Greaseproof paper	No	Yes	Translucent
Tissue paper	No.....	Yes...	Translucent
Cardboard	No	No	Opaque.....
Polythelene bag	No.....	Yes...	Translucent



Science investigation

❗ The child should learn how clearly he or she can see through ice, as compared to liquid water. One possibility is to freeze a small object in water and place the same object in liquid water to see which object is easier to see. Ice becomes translucent.

