

Properties of Materials

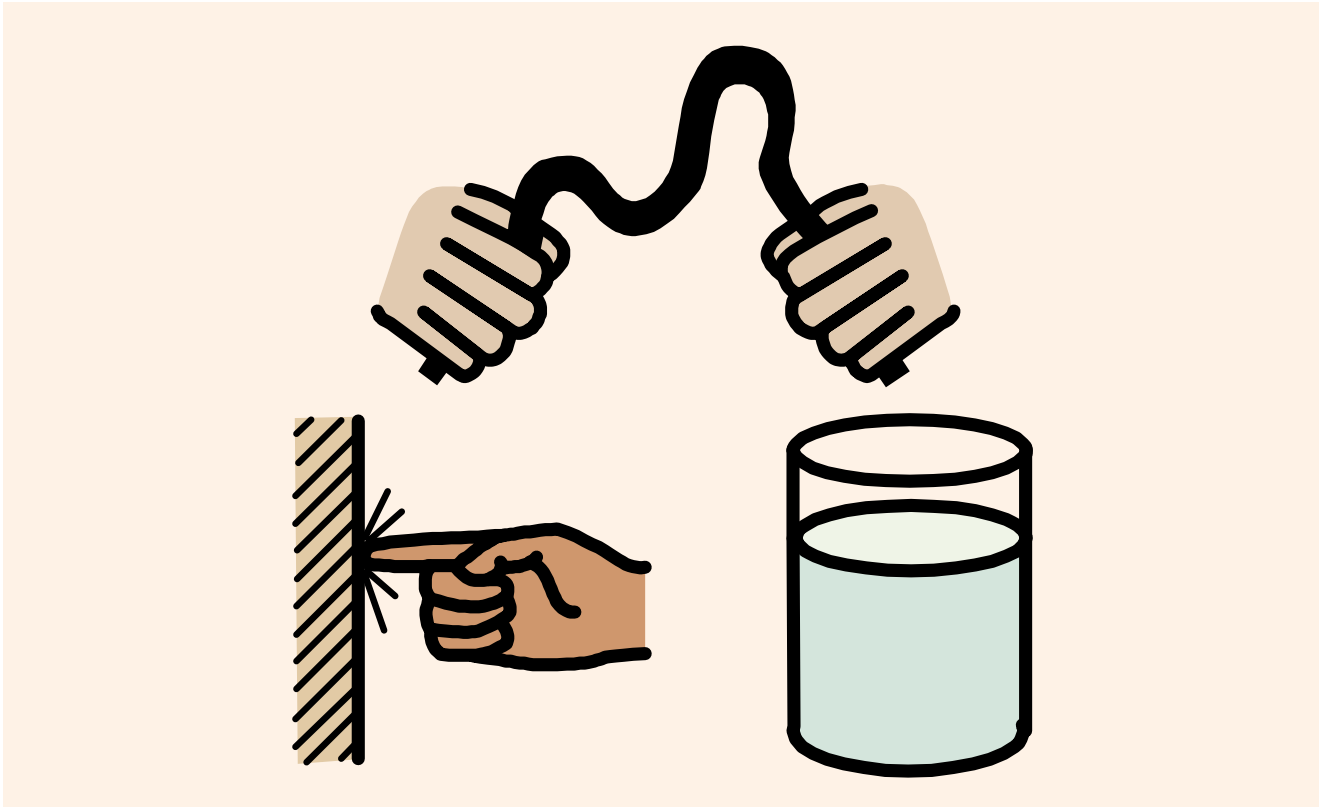
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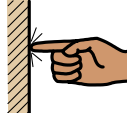
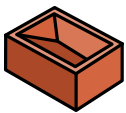
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Different materials have different properties.



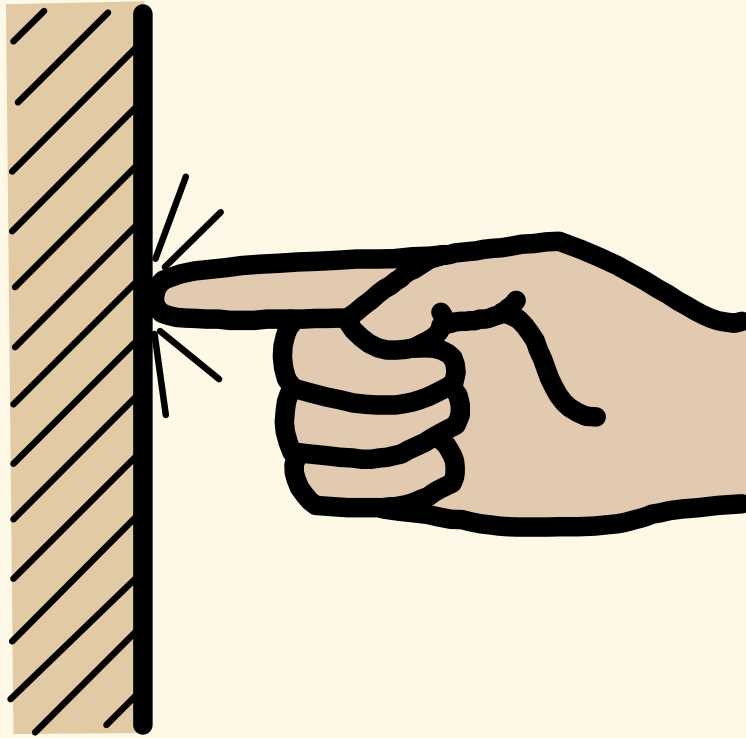
We choose materials because of their different properties.


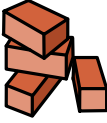

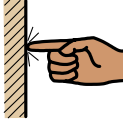
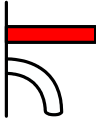


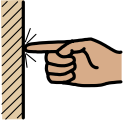


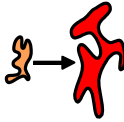

A brick is hard and a pillow is soft.

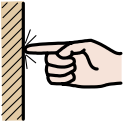





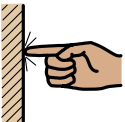



A characteristic of a material is called a property.

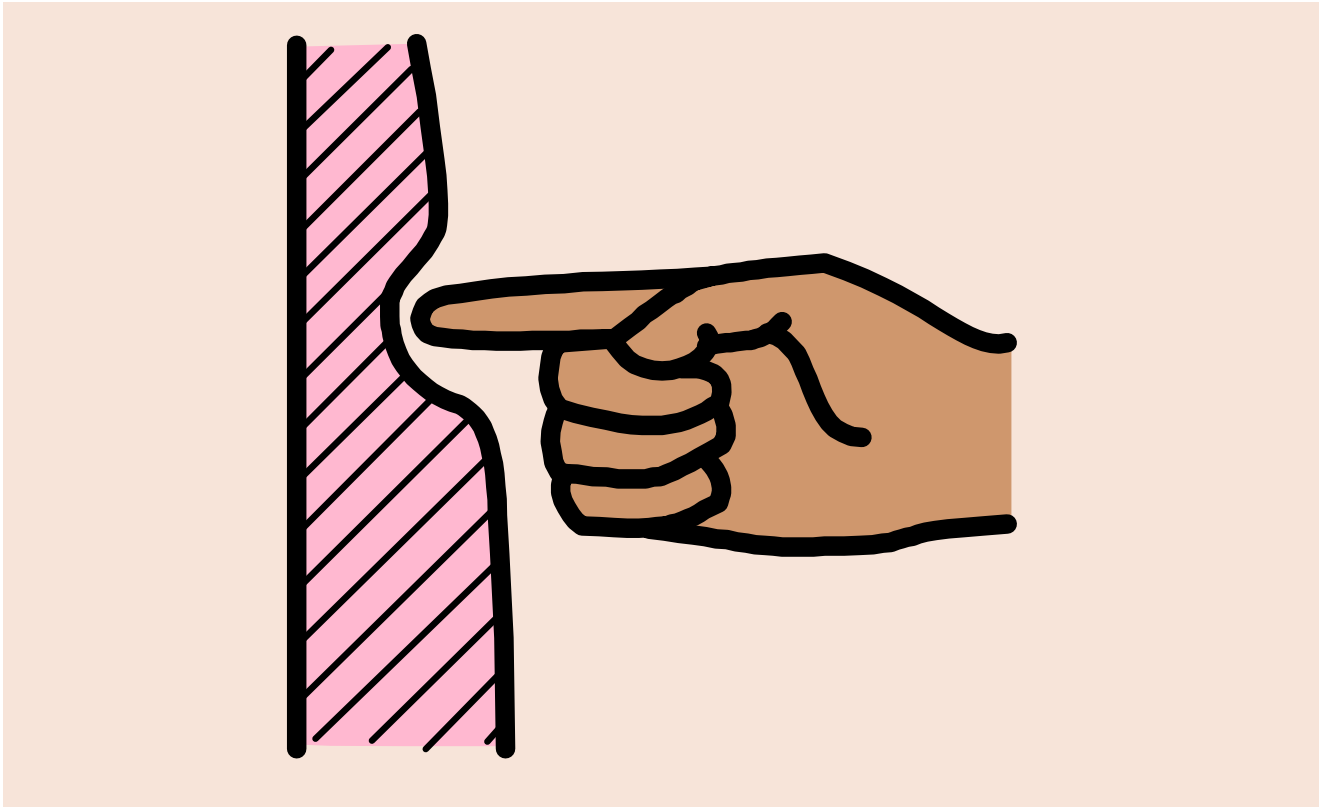







 Materials like bricks and metal are hard and rigid.

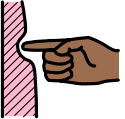

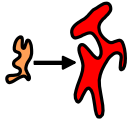






 Hard materials resist changes in shape.





 Hard materials resist wear and tear.









 Hard materials are good for building.

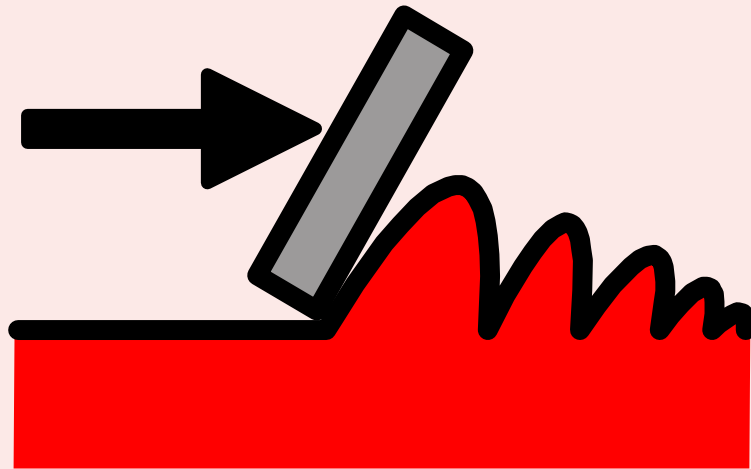


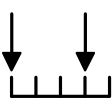


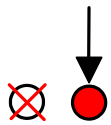
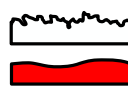

 Materials like
 
 wool and
 
 cotton are
 
 soft and
 
 flexible.


 Soft fabrics can
 
 stretch and
 
 change
 
 shape.


 Cotton is good for
 
 making
 
 jeans and
 
 t-shirts.


 Wool is good for
 
 making
 
 jumpers and
 
 hats.

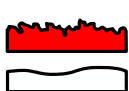

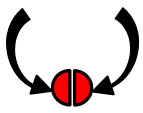








 Some materials are rough instead of smooth.






 Rough materials are good for smoothing wood.

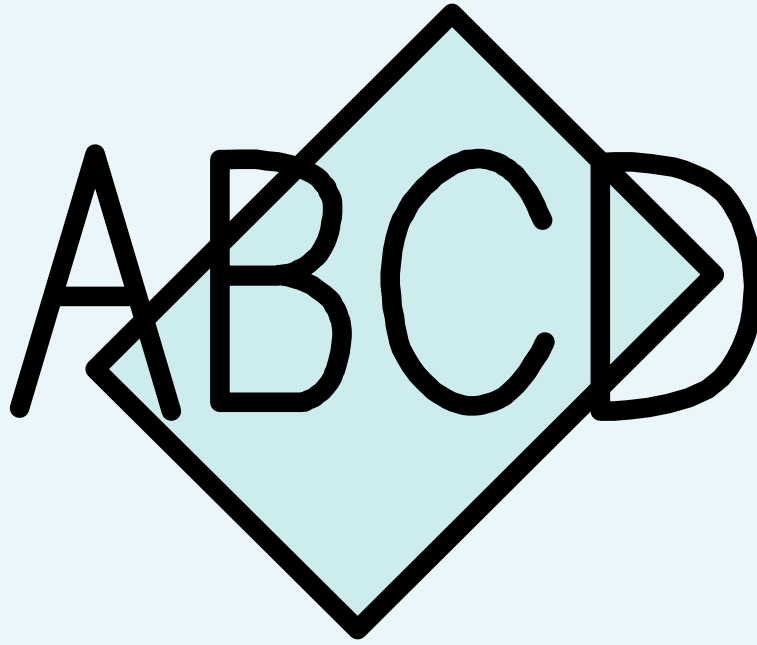




 An abrasive substance is used to make sandpaper.





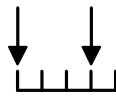


 Sandpaper is good for smoothing rough wood by rubbing.



Glass

and



some

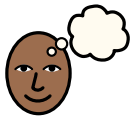


plastics

are



transparent.



This means



that you can

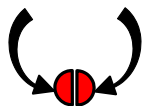


see through them.



Glass

is used



to make



windows

and



drinking glasses.



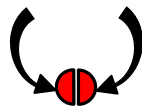
Glass

and



plastics

are used



to make

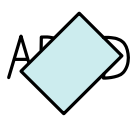
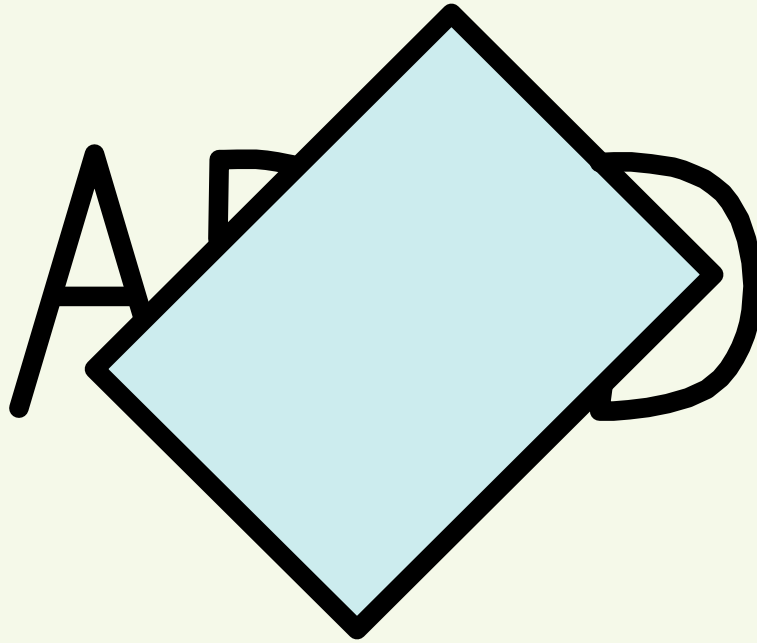


lenses

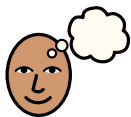
for



spectacles.



Opaque



means



you cannot



see through



a material.



Materials

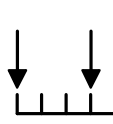
like



wood,



metal

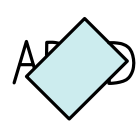


and some



plastics

are



opaque.



Translucent



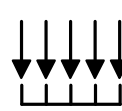
means



a material



is not



completely



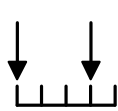
clear.



Translucent



means



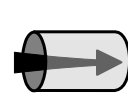
some



light



can



pass through.



Materials



like rubber



and glass



are waterproof.



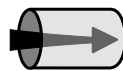
They



do not



allow water



to pass through.



Boats



can be



made

of



wood,



plastic

or



metal.



Wellies

and



raincoats



help

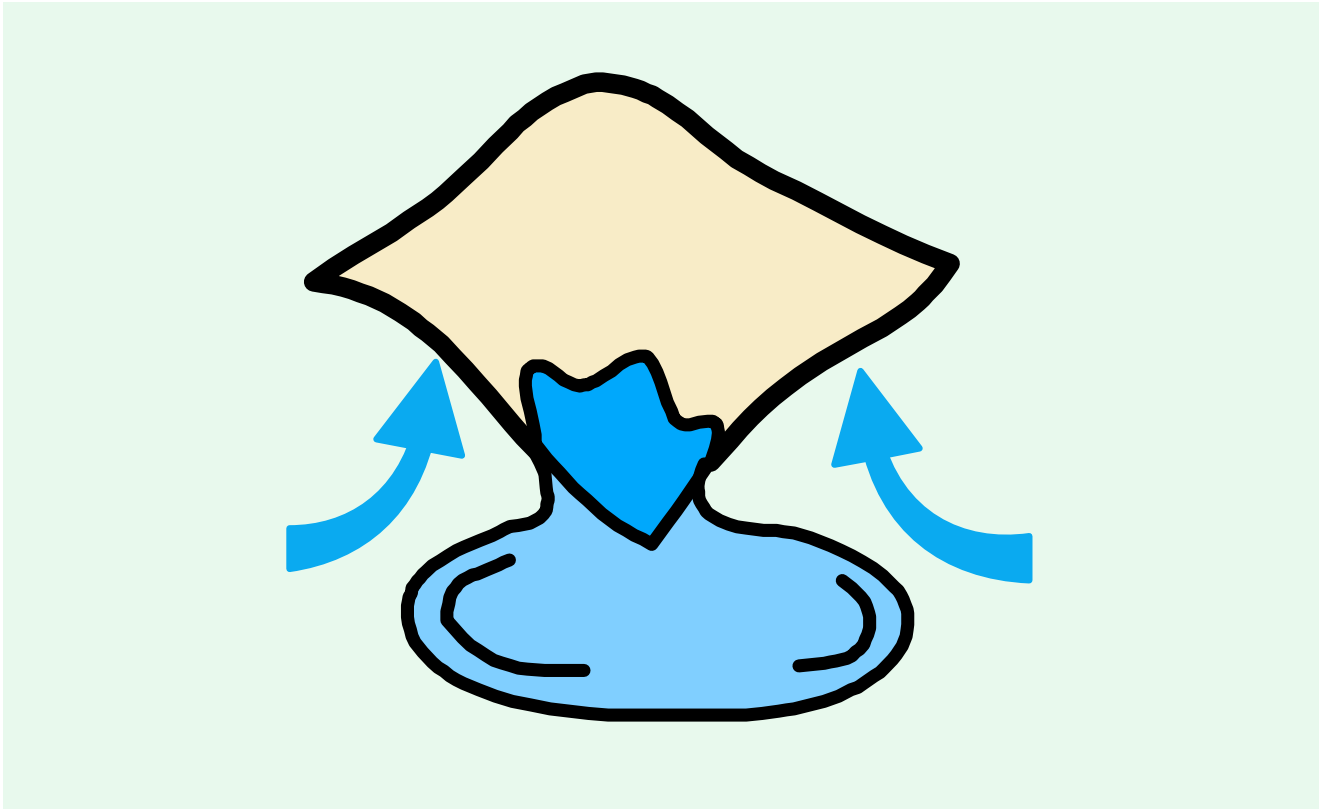


you

to



keep dry.



Materials

like



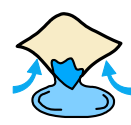
paper

and

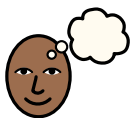


fabric

are



absorbent.

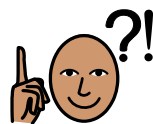


This means

they



soak up water



easily.



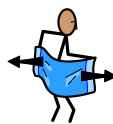
Cotton



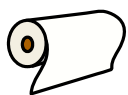
towels



are good for



drying yourself.



Kitchen roll



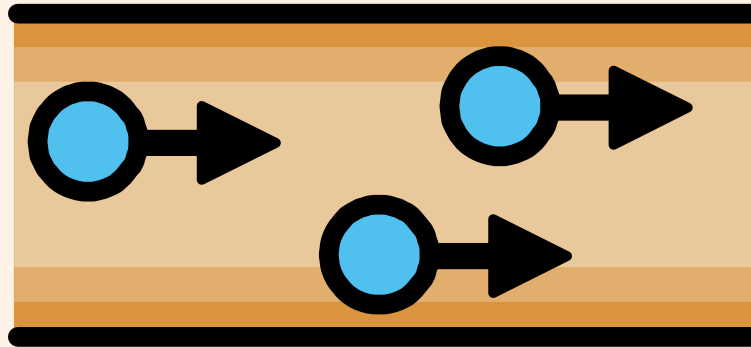
is good for



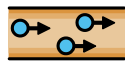
mopping up



spills.



Metals



are conductive,

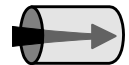
which means



electricity



can

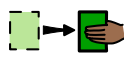


pass through.



Metals

can



transfer



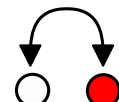
energy



as



heat



or



electricity.



A saucepan



is good for



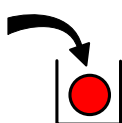
heating up



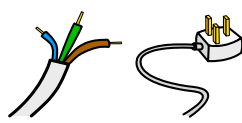
soup.



The metal



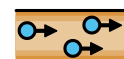
in



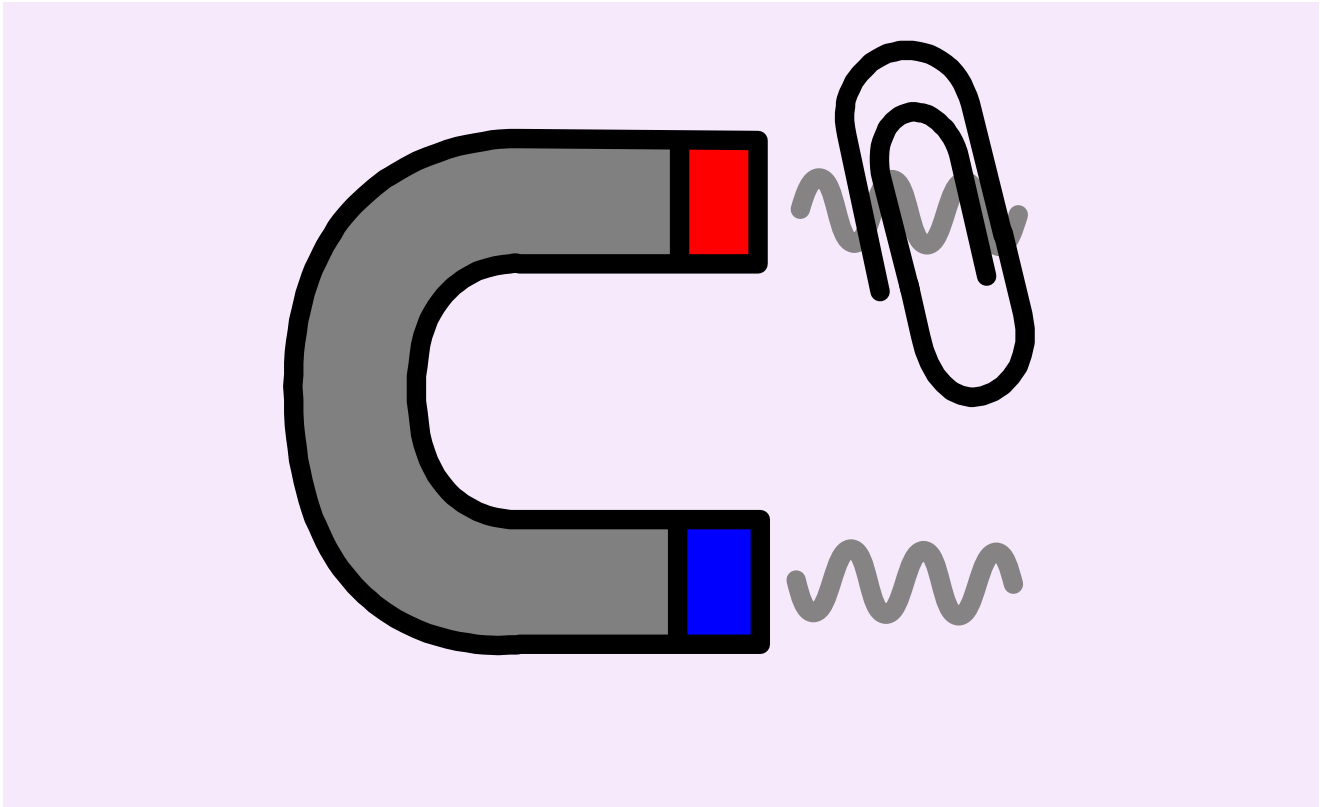
wires and cables



is a good



electrical conductor.



Metals

such as



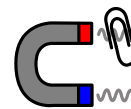
iron

and

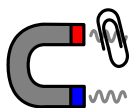


nickel

are



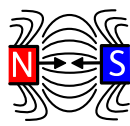
magnetic.



Magnetic



materials

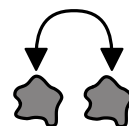


attract

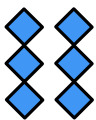
and



repel



each other.

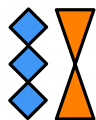


Like

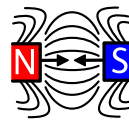


poles repel

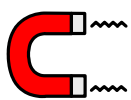
and



unlike



poles attract.



Magnetism

is



used

to



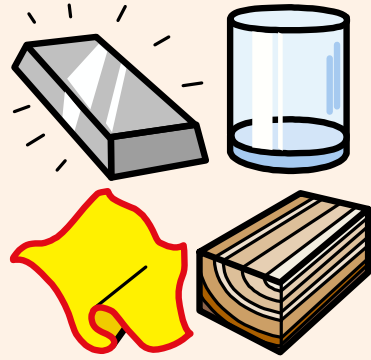
generate



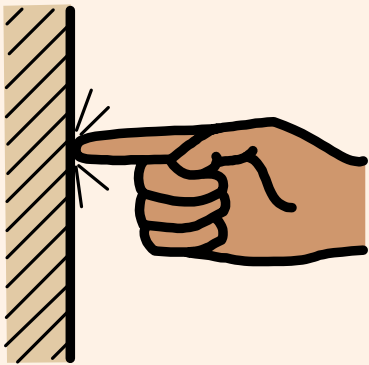
electricity.



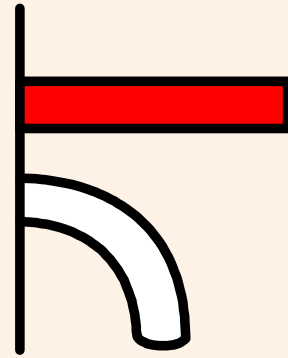
property



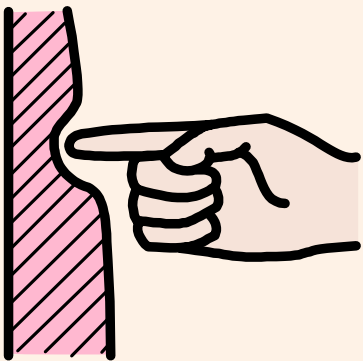
materials



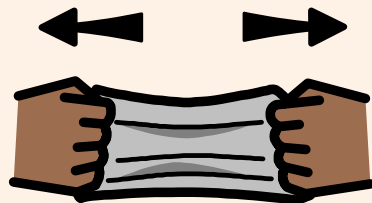
hard



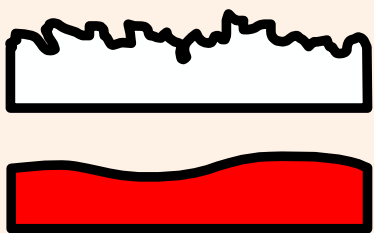
rigid



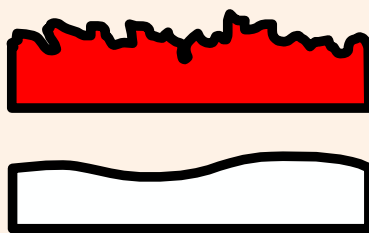
soft



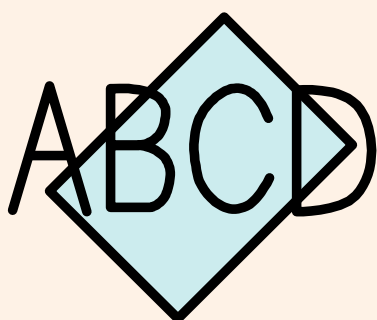
stretchy



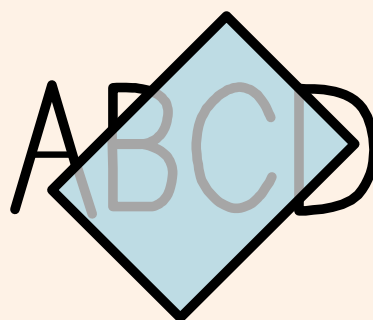
smooth



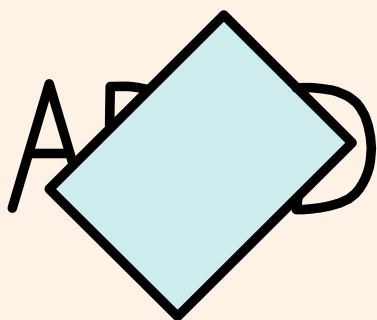
rough



transparent



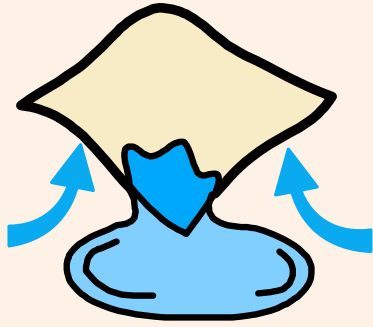
translucent



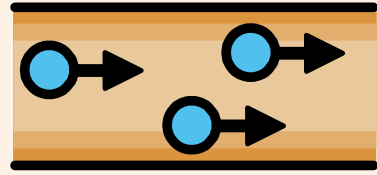
opaque



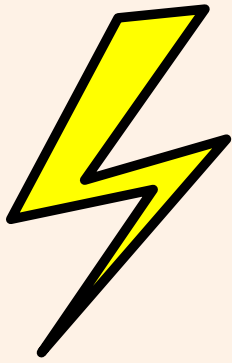
waterproof



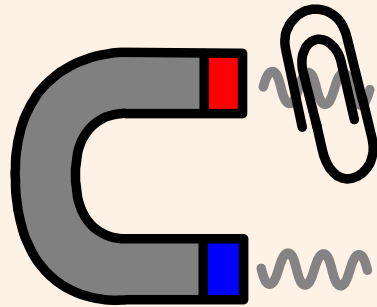
absorbent



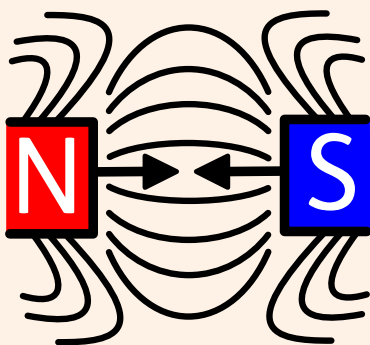
conductive



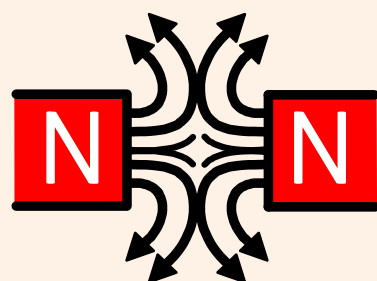
electricity



magnetic



attract



repel