

2. Worksheet: What material conducts electric current?

In this activity you have to design and carry out an experiment to examine different materials (wires of different materials, pencil lead, match, piece of plastic, distilled water, tap (salty, sweet) water, glass, porcelain, china plate with metal strip, etc.) and their conductivity. Use a bulb as an indicator of current.

1. Draw a circuit diagram in order to investigate the ability of different materials to conduct electric current.
2. Fill in the table according to your observation. Tick into the appropriate box.

Material	Bulb brightness				
	bright	→			dim

3. Which material is the best conductor?
4. Which material is the worst conductor?
5. Now connect whatever material you have to make a circuit to light up the bulb. Try to make the longest circuit!

