



26th January 2021

I can sort materials based on their electrical conductivity.

What is an electrical conductor?

What is an electrical insulator?

How can you test whether a material is an electrical conductor or insulator?

At school, we will be making circuits to test different materials. At home, see if you can research some materials that are conductors and insulators.



Look at the problems, explain, using your knowledge of materials, what a sensible answer would be.



Electrical conductivity problems

- 1) Kate knows that silver is a super conductor, should she use it in her electrical wires?
- 2) Why are cables encased in plastic?
- 3) Graphite can conduct electricity, but why would you not use it for your wiring?
- 4) Santa's Christmas lights have been worn against the wood on his house. An elf notices that he can see copper wire, what can he do to keep using them?



