



CURRENT ELECTRICITY

Water Analogy

The movement of electrons in current electricity is similar to water movement in plumbing.



VOLTAGE

- a measure of the potential energy per charge
- measures in Volts (V)



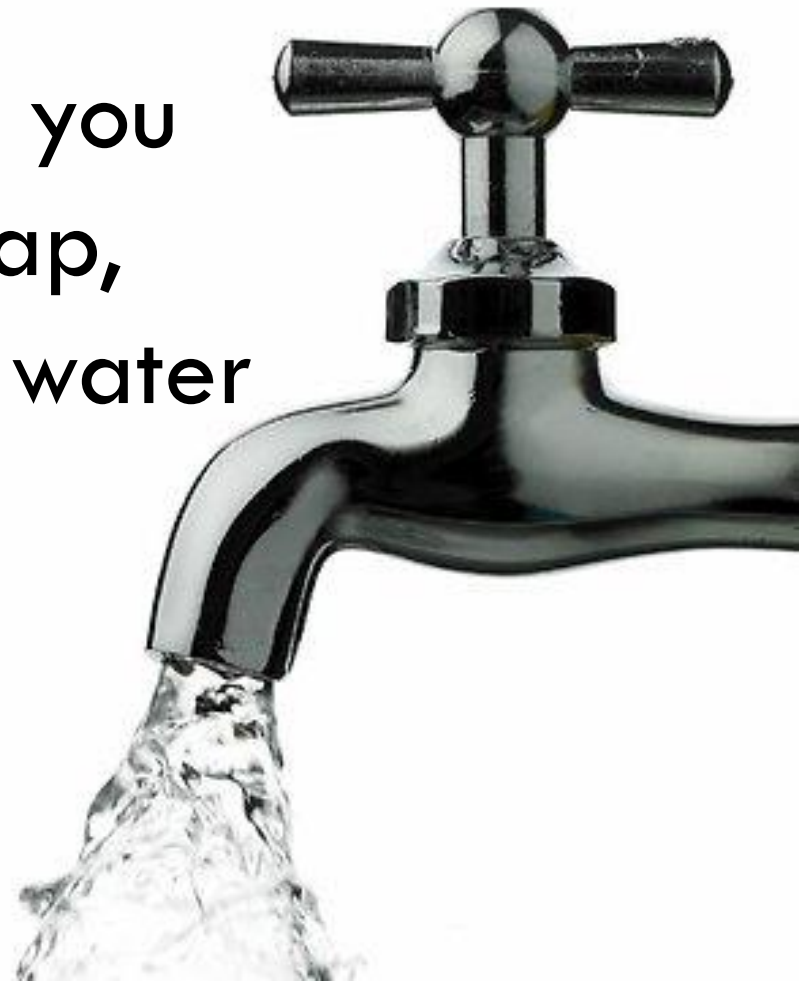
It is the force that pushes the electrons

The force of water flowing through the pipes is controlled by a tap.



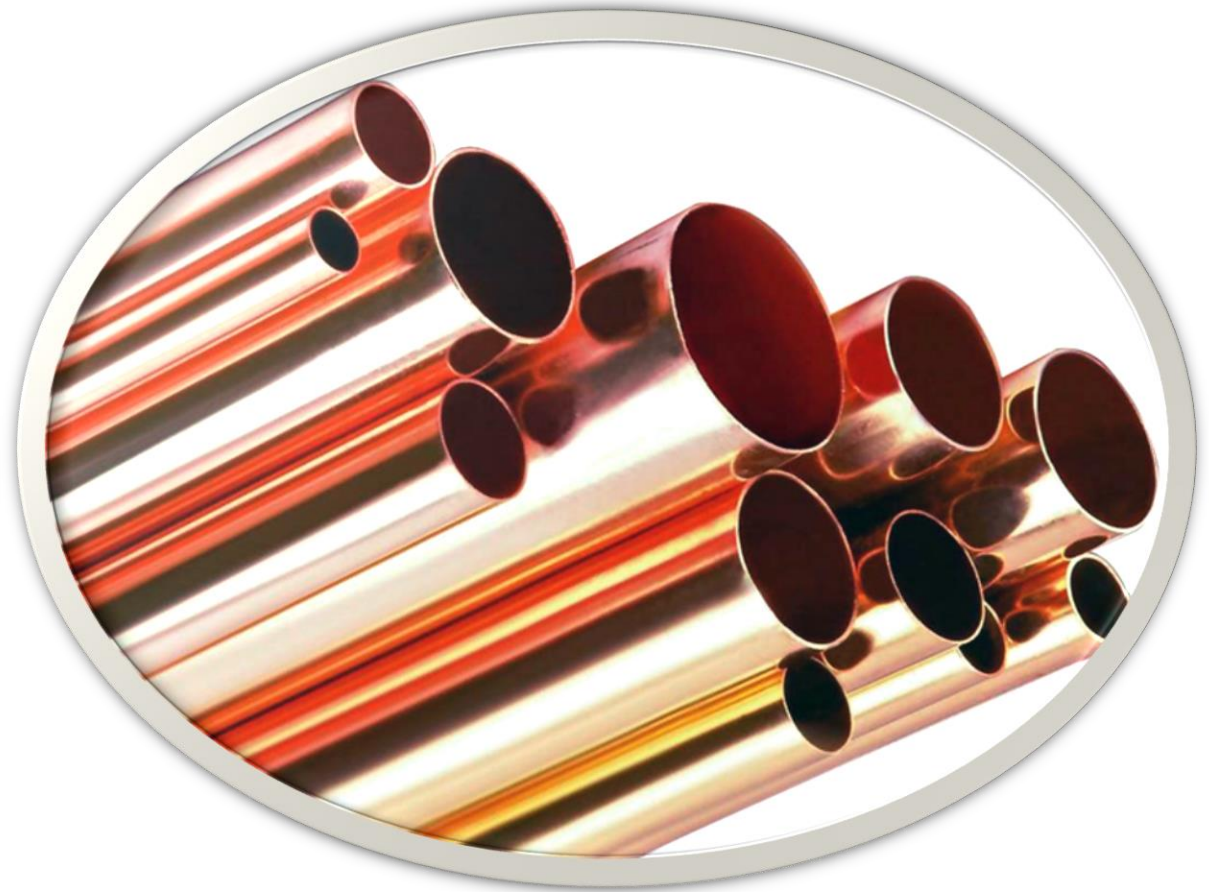
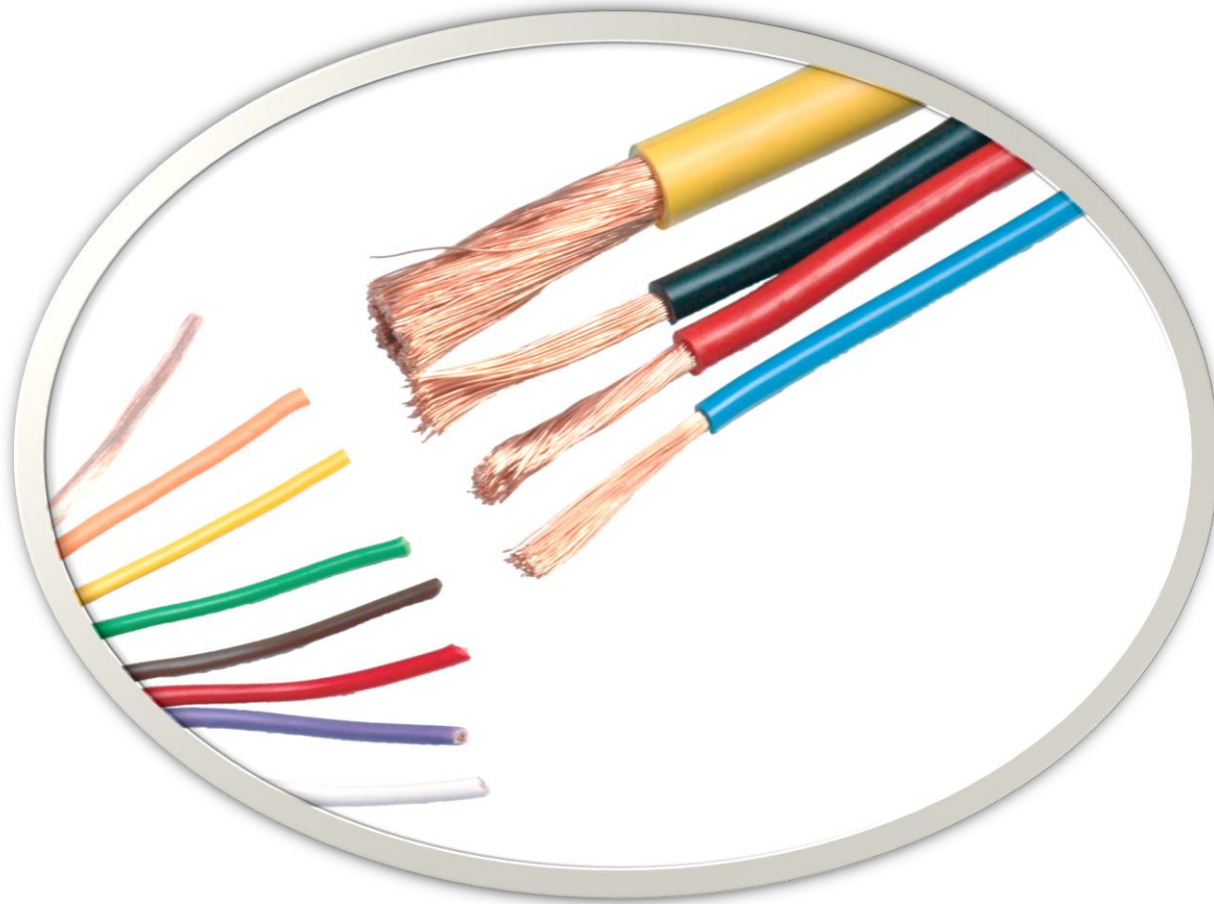


The more you turn the tap, the more water flows.



The greater the voltage the greater amount of electrons are forced through the wires.

Wires are like Pipes



Diameter effects flow

CURRENT

- a measure of the flow of electrons
- measures in Amperes (A)

Electrons flow like water.



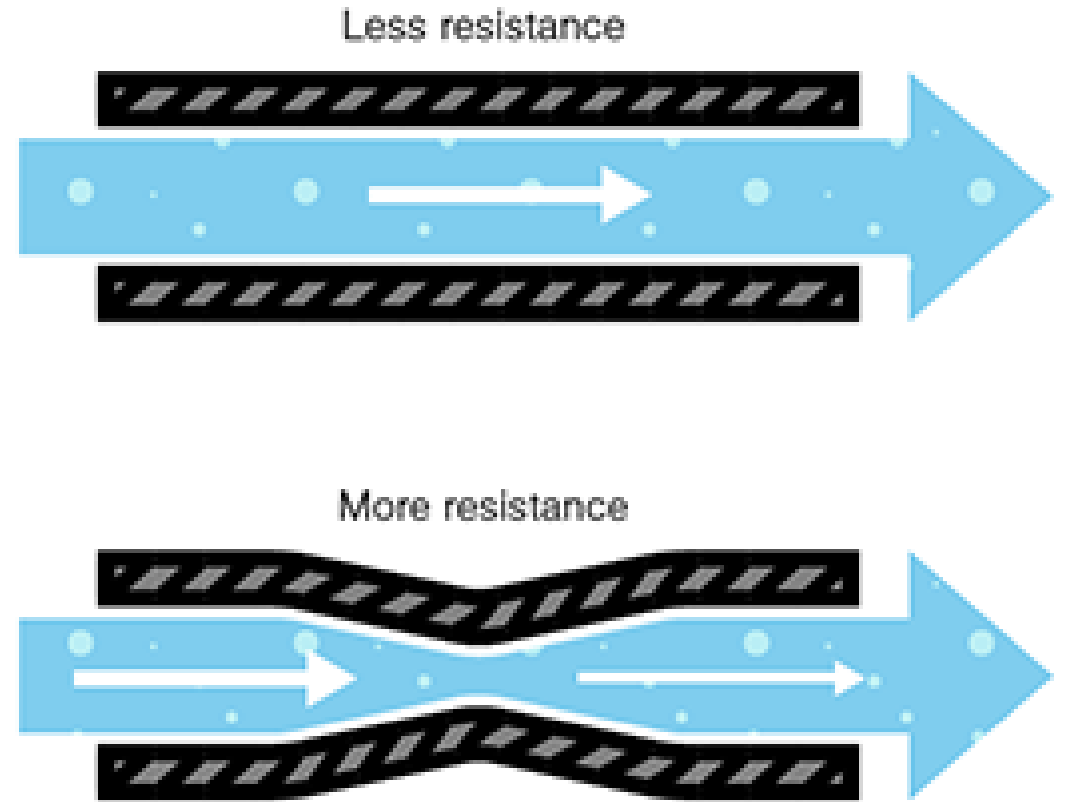


Clogged pipes will resist the flow of water.

Pipe quality is like wire quality

RESISTANCE

- a measure of the opposition to electron flow
- measured in Ohms (Ω)



Slows down the flow of electrons.