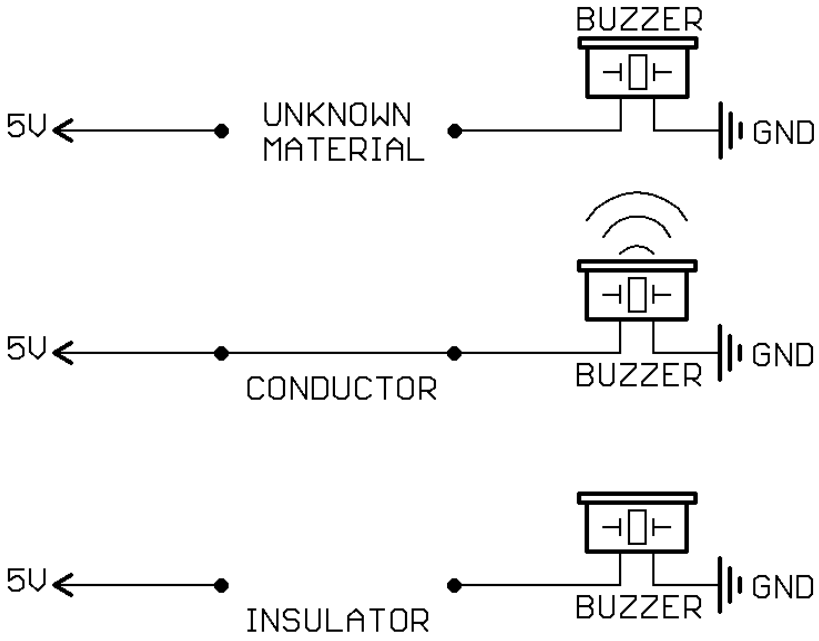
Activity 7 – Conductivity and Breadboards

Conductivity: how easily electric charge can move in a material

Conductor	**Insulator**
Electric charge moves easily.	Electric charge does not move

Testing the Conductivity of Different Materials

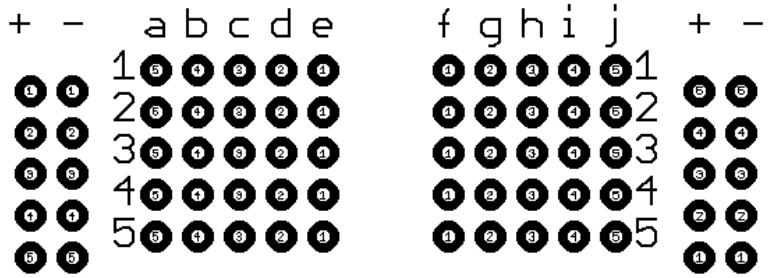


We can use this buzzer circuit to test the conductivity of different materials. If the material is a conductor, current will flow through it and the buzzer to sound. If it is an insulator, no current will flow and the buzzer will not sound. **Test** different materials around the room, and **fill in this table** with your observations.

Material	Conductor	Insulator
Metal wire	✓	
White-board		✓
Pencil (wood)		
Pencil (graphite)		
Crayon		
Coin		
Paper clip		

Material	Conductor	Insulator
Fill with other materials…		

Mapping Conductivity on a Breadboard



Test which of the holes are connected and conduct electricity together. Draw lines across the holes to show which ones are connected.

Ideas, Questions, Notes