

Electricity Study Guide for Quiz 3

Lesson 6: Identifying Conductors and Insulators

Lesson 7: Recognizing Electrical Hazards in Everyday Life

Vocabulary: [https://quizlet.com/ 606gd1](https://quizlet.com/606gd1)

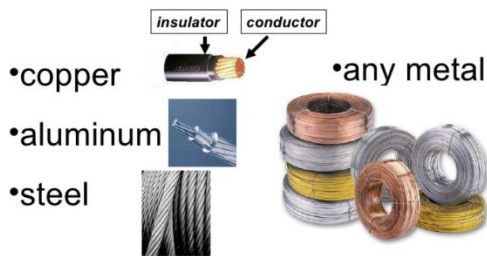
1. **Conductor:** A material that electric current goes through easily.
2. **Insulator:** A material electric current cannot go through easily.
3. **Electrocute:** To be seriously injured or killed by electric current.
4. **Hazard:** A possible source of danger.
5. **Short Circuit:** A circuit with an easy path for the current that bypasses the rest of the circuit. This allows too much current to flow and produces so much heat that it may cause a fire.

Things to know:

1. Recognize the applications of conductors and insulators in everyday life.

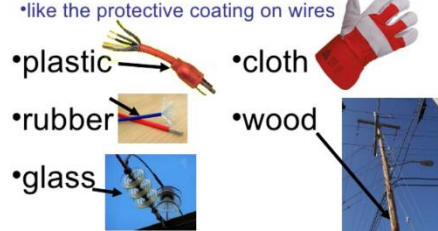
Conductor –

Any material that allows electric current to pass through it



Insulator –

Any material that does not allow electric current to pass through it
•like the protective coating on wires



2. Identify electrical hazards in everyday life and strategize ways to prevent them



3. Human beings are conductors of electric current.

HEY KIDS!

Follow my 10 Simple Tips on avoiding electrical hazards.

In no time you'll be part of the Surge Protector Team!

- 1 NEVER put your fingers or toys into outlets. Only cords go into outlets.
- 2 NEVER use electrical equipment around water. Example: **DO NOT** use hairdryers or radios in or around the bath/shower or swimming pool.
- 3 NEVER play near broken outlets or in areas with lots of electrical cords. Example: **DO NOT** play near computers, TVs or stereo systems.
- 4 NEVER pull a plug out by the cord.
- 5 NEVER play with any torn or taped electrical cords, wires or switches and keep them away from heat and water.
- 6 NEVER stick objects into electrical equipment. Example: **DO NOT** stick a fork in the toaster.
- 7 NEVER go near a downed powerline.
- 8 NEVER climb utility poles, transmission towers or fences around substations.
- 9 NEVER climb trees that are near powerlines or fences with signs that read "DANGER", "HIGH VOLTAGE" or "KEEP OUT".
- 10 ALWAYS ask for help when it comes to electricity and electrical objects.