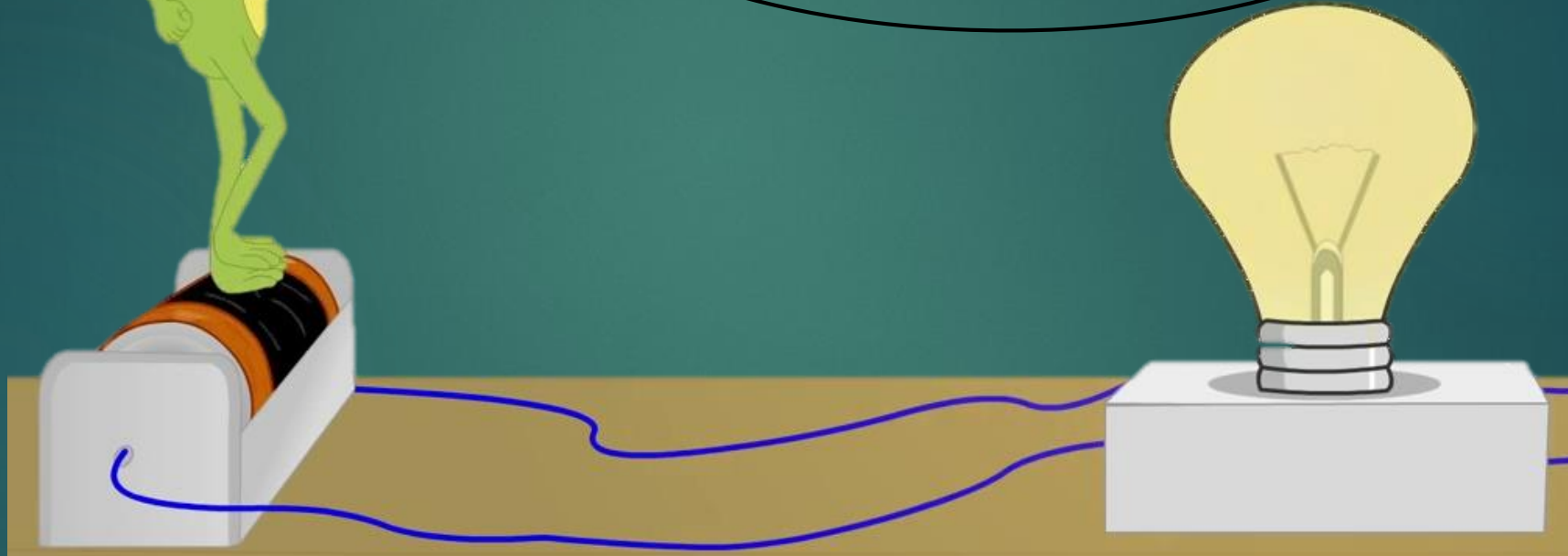


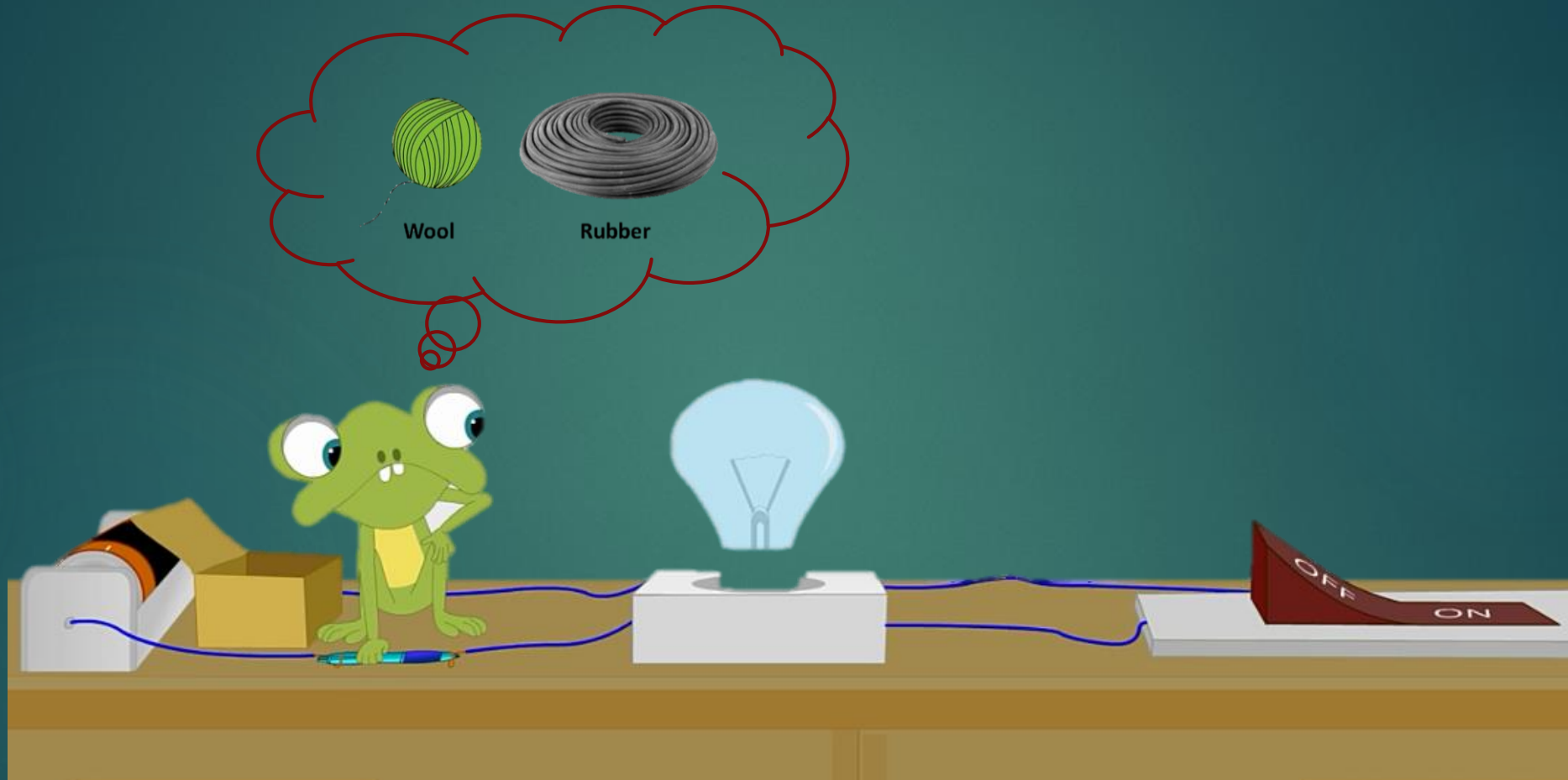
ELECTRICAL CONDUCTORS AND INSULATORS



Electricity travels easily through electrical conductors, like metals.

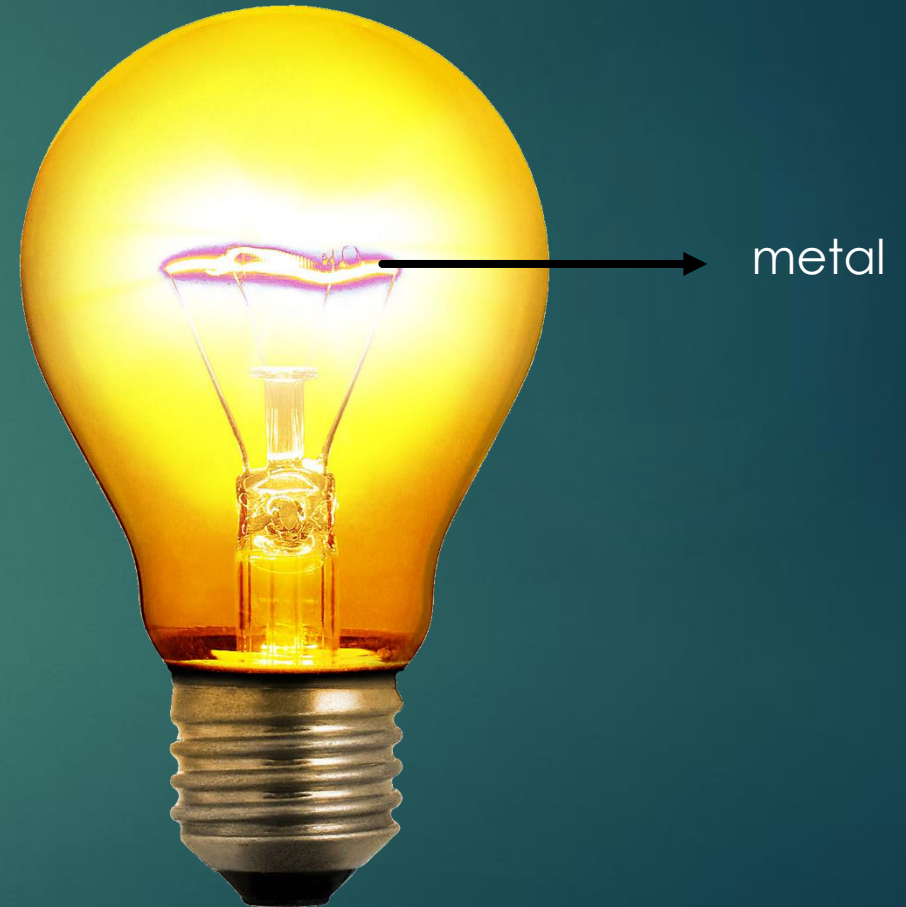


- ▶ Materials that do not let electricity pass through them easily are called electrical insulators. Plastic, wood, glass and rubber are good electrical insulators.



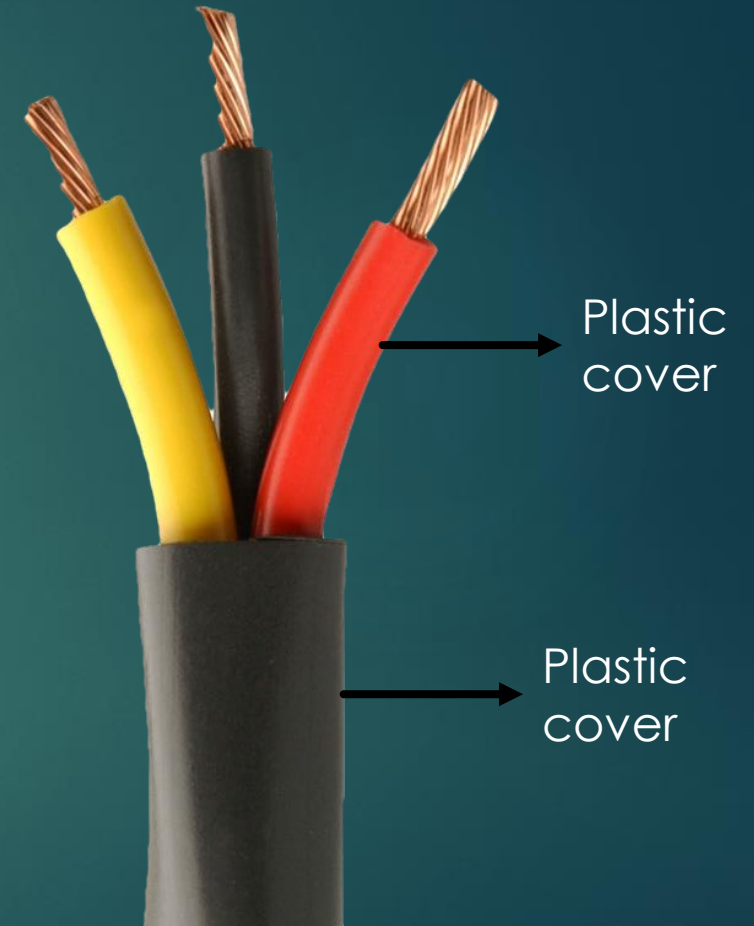
ELECTRICAL CONDUCTORS

- ▶ Some materials let electricity pass through them easily. These materials are known as electrical conductors.
- ▶ Many metals, such as copper, iron and steel, are good electrical conductors. That is why the parts of electrical objects that need to let electricity pass through are always made of metal.



ELECTRICAL INSULATORS

- ▶ Some materials do not allow electricity to pass through them. These materials are known as electrical insulators.
- ▶ Plastic, wood, glass and rubber are good electrical insulators. That is why they are used to cover materials that carry electricity.
- ▶ The plastic covering that surrounds wires is an electrical insulator. It stops you from getting an electrical shock.



Now let us answer Mr. Frog's questions to help him fix his circuit!

A material that lets electricity pass through it is called ...

- ▶ an electrical conductor
- ▶ an electrical insulator
- ▶ an electrical appliance



A material that lets electricity pass through it is called ...

- ▶ **an electrical conductor**
- ▶ an electrical insulator
- ▶ an electrical appliance



A material that does NOT let electricity pass through it is called ...

- ▶ an electrical conductor
- ▶ an electrical insulator
- ▶ an electrical appliance



A material that does NOT let electricity pass through it is called ...

- ▶ an electrical conductor
- ▶ **an electrical insulator**
- ▶ an electrical appliance



Which of the following materials is an electrical conductor?

- ▶ Silver
- ▶ Wood
- ▶ Plastic



Which of the following materials is an electrical conductor?

- ▶ **Silver**
- ▶ Wood
- ▶ Plastic



Which of the following materials is an electrical insulator?

- ▶ Iron
- ▶ Gold
- ▶ Rubber



Which of the following materials is an electrical insulator?

- ▶ Iron
- ▶ Gold
- ▶ **Rubber**



Why is electrical wiring usually covered with a layer of plastic?

- ▶ To make it look pretty
- ▶ To help electricity flow along the wire
- ▶ To make it safe



Why is electrical wiring usually covered with a layer of plastic?

- ▶ To make it look pretty
- ▶ To help electricity flow along the wire
- ▶ **To make it safe**



A cartoon illustration of a green alien with large eyes and a wide smile, standing on a battery. The battery is connected to a lit lightbulb. A speech bubble from the alien says "THANKS!". The scene is set on a wooden surface against a dark teal background.

THANKS!