# Conductor or Insulator?

## Make the Cards

1. Print out the cards, double sided.
2. Cardstock is recommended, but not required.
3. Cut the cards out along the dotted lines.
4. The first page has the header strips (Conductors and Insulators).
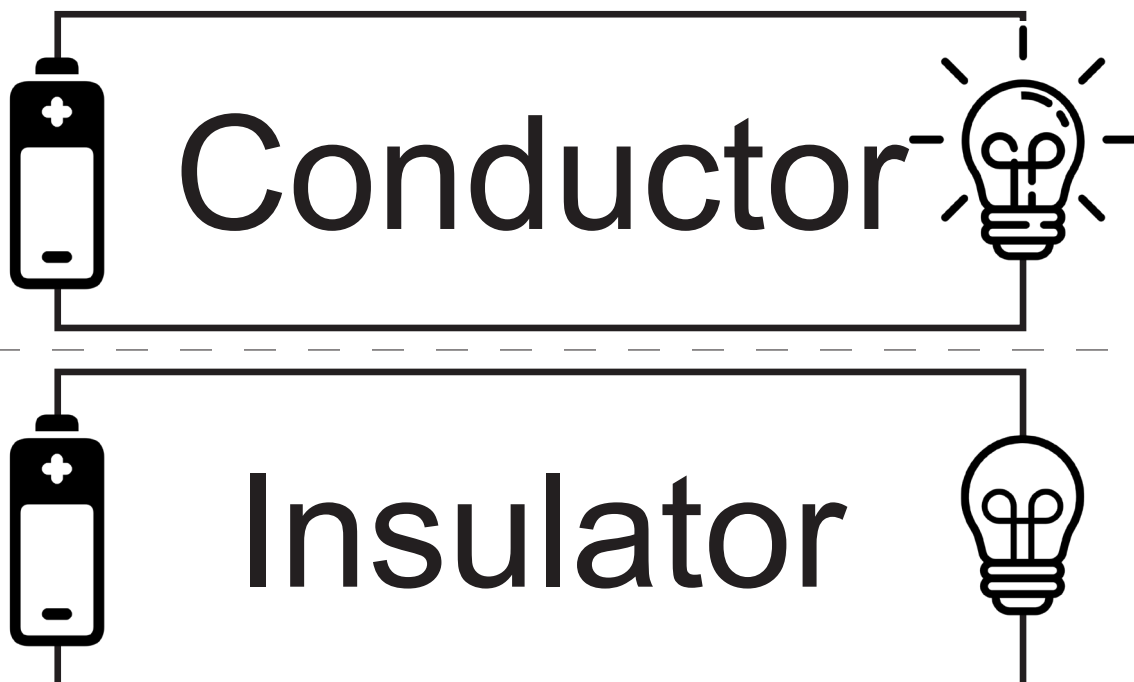5. You can use the blank cards to add your own ideas!

## How to Play

*One player*

1. Place the header strips on the table.
2. Shuffle the sorting cards and flip them over face down.
3. One by one, turn the cards face up.
4. Sort the cards into two piles.
5. Place the good conductors with the Conductor header strip.
6. Place the good insulators with the Insulator header strip.
7. Once you have finished sorting, check the answer key. Your score is the number of cards you sorted correctly.
8. You can use a timer to see how quickly you can sort all of the cards.

*Two or more players*

1. Each player needs their own header strips and full deck of cards.
2. Set the game up exactly the same way as the one-player version.
3. When you are ready to play, all players turn the top card at the same time.
4. When you are finished sorting, check the answer key. Do not show it to anyone else or make any more changes to your pile. Your score is the number of cards you sorted correctly.
5. The winner is the player with the highest score. In case of a tie, the player who has the highest score in the shortest amount of time is the winner.

# Conductor

# Insulator

**Answer key**

*Conductors:* aluminum foil, lead, tap water, copper, salt water, play dough, bananas

*Insulators:* rubber, paper, wax, wood, diamond, glass, air, plastic, distilled water

| | | | |
|---|---|---|---|
| Tap Water | Wood | Diamond | Wax |
| Aluminum Foil | Paper | Rubber | Glass |
| Copper | Air | Salt Water | Plastic |
| Banana | Graphite | Play Dough | Distilled Water |

*Cut along the dotted lines and mix together.*

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