

# Electrical Conductors and Insulators Maze

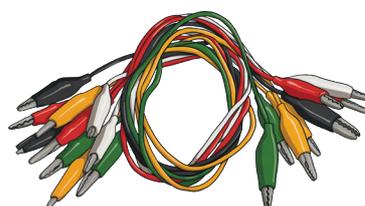


Find a path through the maze by following the objects that are electrical conductors. You can only move horizontally or vertically through the maze.



Unscramble the letters to reveal a fact about electrical conductors or electrical insulators.

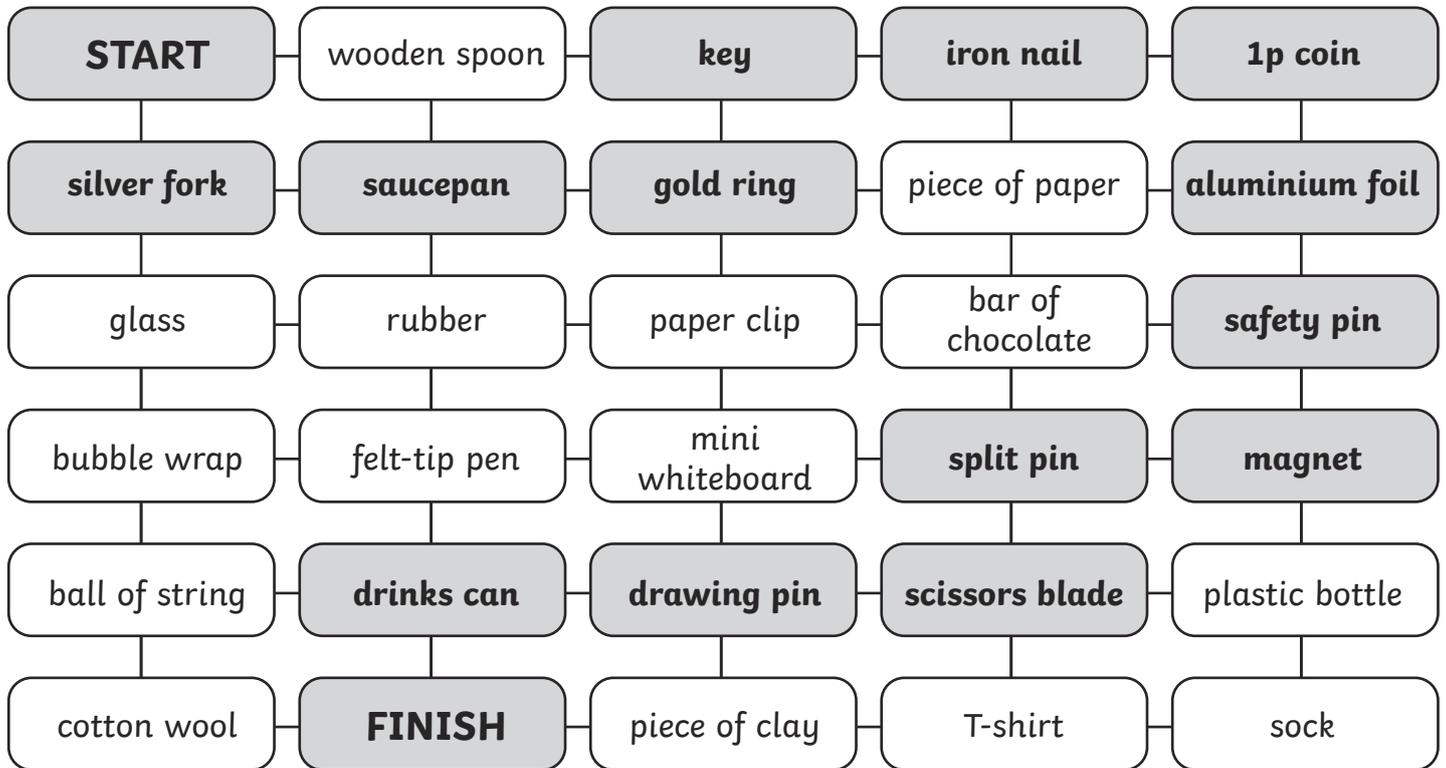
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# Electrical Conductors and Insulators Maze Answers



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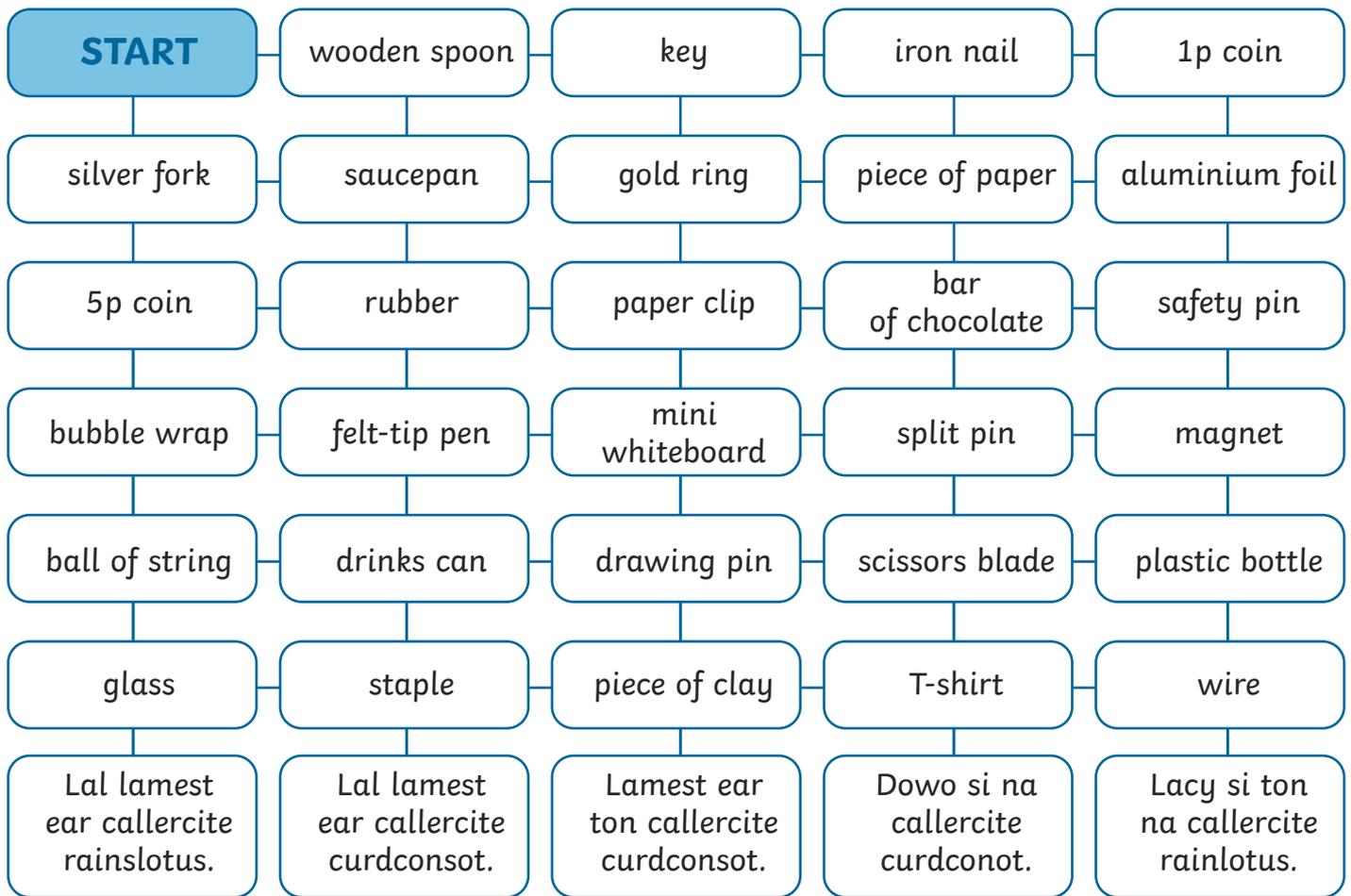
A l l m e t a l s a r e e l e c t r i c a l c o n d u c t o r s .

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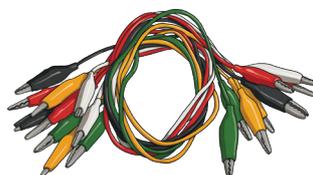
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Beware as some paths through the maze may lead you to a dead end!

At the end of the path, a fact about electrical conductors or electrical insulators will be revealed – once you have unscrambled the letters.



Fact: \_\_\_\_\_

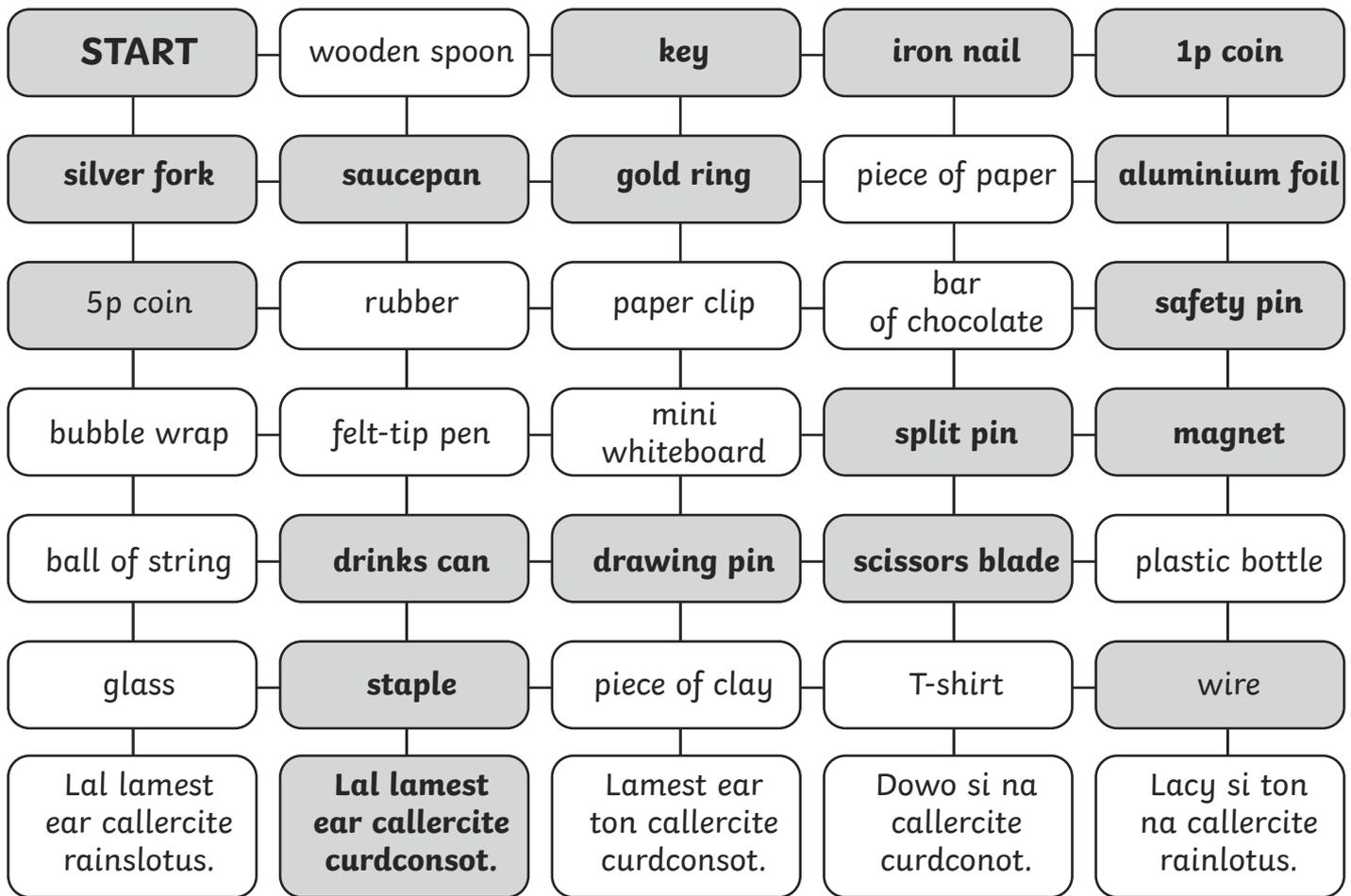


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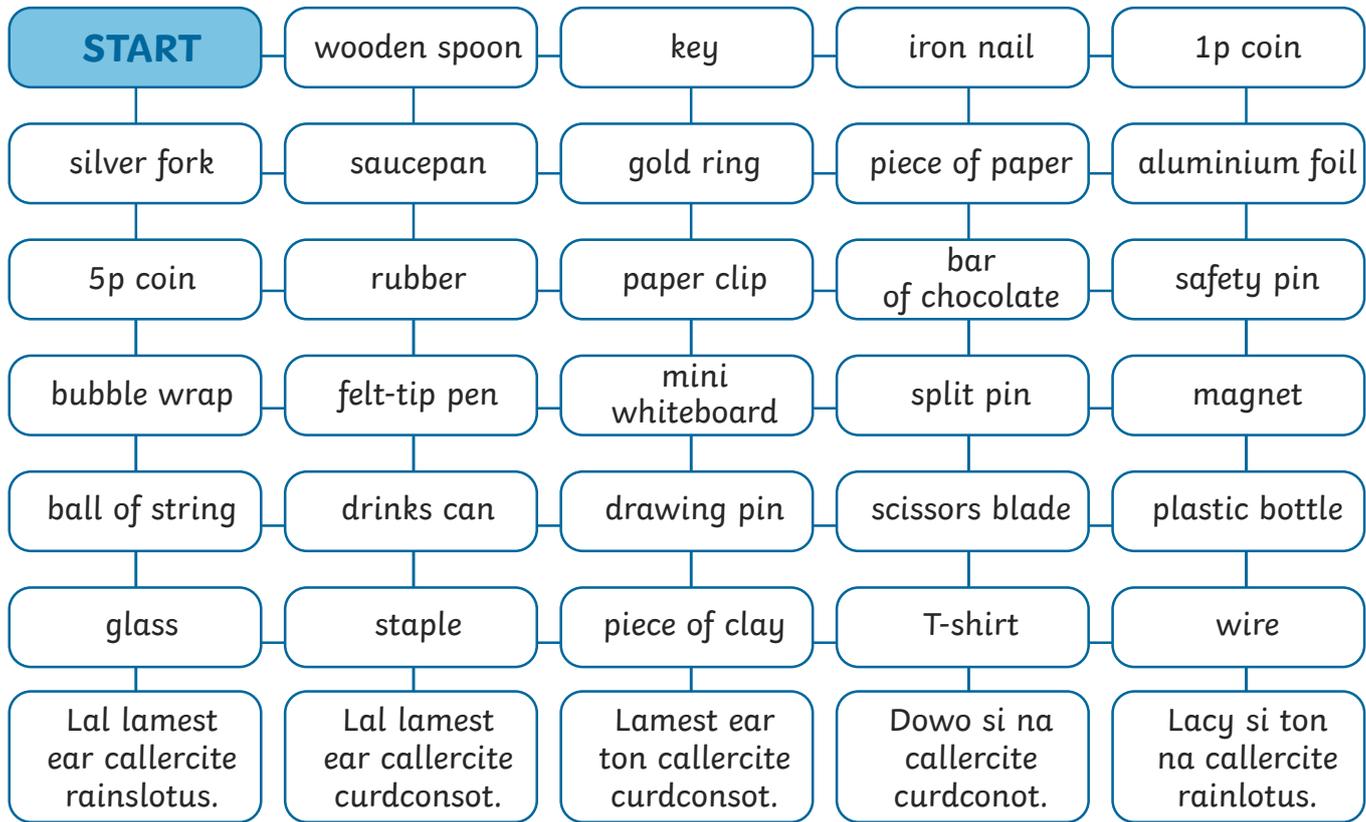
Fact: **All metals are electrical conductors.**

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Fact: \_\_\_\_\_

1. How can you test whether a material in an electrical circuit containing a buzzer is an electrical conductor or an electrical insulator?

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2. Why is it important for the wires in an electrical circuit to have a plastic coating?

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3. Why would it be dangerous to use an electric hairdryer near water?

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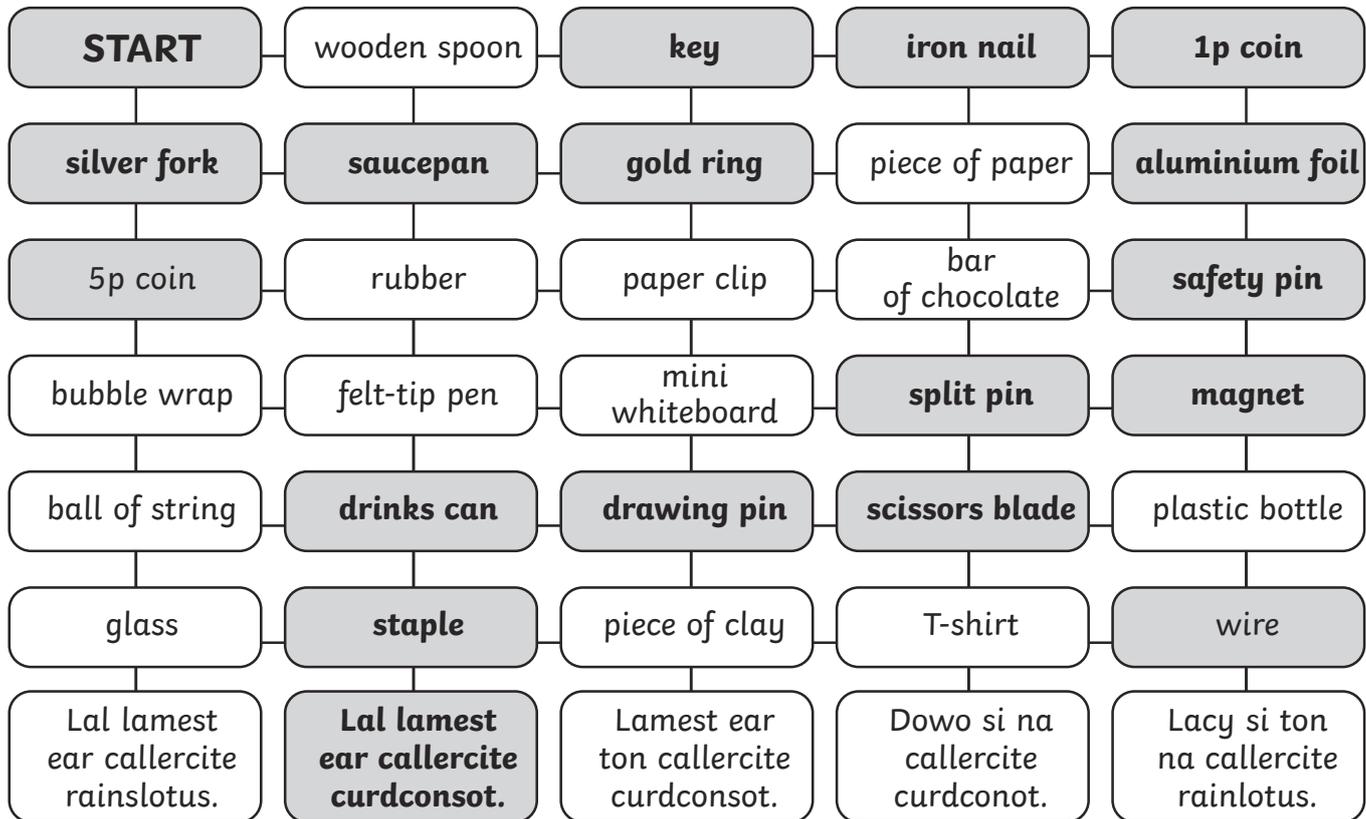
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**Fact: All metals are electrical conductors.**

- Electrical conductors allow electricity to flow through them. If a material that is an electrical conductor is placed in a complete circuit containing a buzzer, the buzzer will make a sound. Electrical insulators do not allow electricity to flow through them. If a material that is an electrical insulator is placed in a circuit containing a buzzer, the buzzer will not make a sound.**
- The wires in an electrical circuit are made of metal, which is an electrical conductor and allows electricity to flow through it. They are coated in plastic to make them safe to touch as plastic is an electrical insulator and does not allow electricity to flow through it.**
- It is dangerous to use a hairdryer near water because water can conduct electricity and you could get an electric shock.**