



Magnet Maze

Making a maze on a bottle –
then using a magnet to move an item
inside the bottle around the maze





Magnetic materials

- Magnets can **stick** to **some** metals, but **not others**.
- Magnetic materials include **iron, nickel** and metals that contain them. This includes some **steels**.
- A **1 pence coin** is made from **copper-plated steel**.
- Place a **magnet** next to a 1 pence coin. **What happens?**
- **Plastics** are not magnetic.





Making a magnetic maze

- Use a **marker pen** to mark the **start** and **finish** points of your maze on the **bottle**.
- Draw your **maze** or **track layout** linking the start and finish points.
- You can use **different coloured pens** to make your design look more **interesting**.
- Remember to use **all sides** of the bottle, going around it – make your maze as **hard** or **easy** to complete as you like!





Testing your maze

- Place your **1 pence coin** into the **bottle** at the **start point**.
- Place your **magnet** on the **outside** of the bottle, also at the **start** – the magnet should **attract** the coin.
- Use your **magnet** to **guide** the coin along the **track** to complete the maze!





Now Try This ...

- Try **replacing** the coin with a **ball bearing**, a **paper clip**, a **plastic coin** and a **small piece of wood**.
- List which ones **work well** and which **do not**. **Why** do you think this is?
- Try drawing **different maze layouts** and use **different sized** bottles to create a range of products! **Be creative!**

