MAGNETIC RAIL

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Toys from Trash

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Step-by-Step Photo Guide

Detailed Worksheet

- One foot Aluminium rods
- Bicycle tube
- Strong magnet
- Copper rod
- 1.5 V Battery cells
- Flexy wires
- Film roll boxes
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Join two batteries

Join the two film boxes
Make assembly as shown

Step-by-Step Photo Guide

Detailed Worksheet
Connect two terminal of wires to battery cells
Place copper rod on Aluminium rods and hold strong magnet perpendicular and see what happens.
When current flows in the circuit and when magnetic field of the strong magnet is perpendicular to copper rod the rod moves. The direction of movement depends on the direction of magnetic field.
As you bring a strong magnet behind the copper rod it starts to move.

In this magnetic rail, a copper rod rests on two aluminium rails through which current flows.

1. You will need 4 thin roll bottles.
2. Make 8-mm holes in the four thin roll bottles.
3. Press fit the aluminium rods in the thin bottle to make the rail track.
4. Sandpaper the ends of the electric wire and connect the two aluminium rods with wire.
5. Place the copper rod after making it move in the opposite direction.

The polarity of the magnet will move on the aluminium rail. On changing
magnet behind the copper rod, it will short the aluminium (are earth) bringing a strong shock on the rail. On
shine with the sandpaper on the rails. On

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