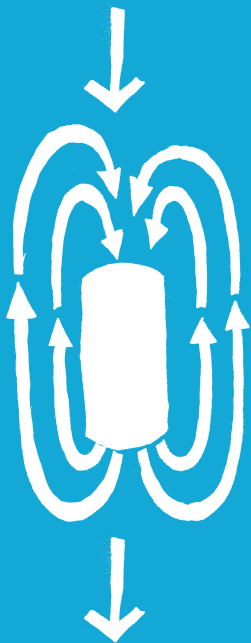


# LENZ'S LAW



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Designed by Tom,  
Design engineer at Dyson

## The brief

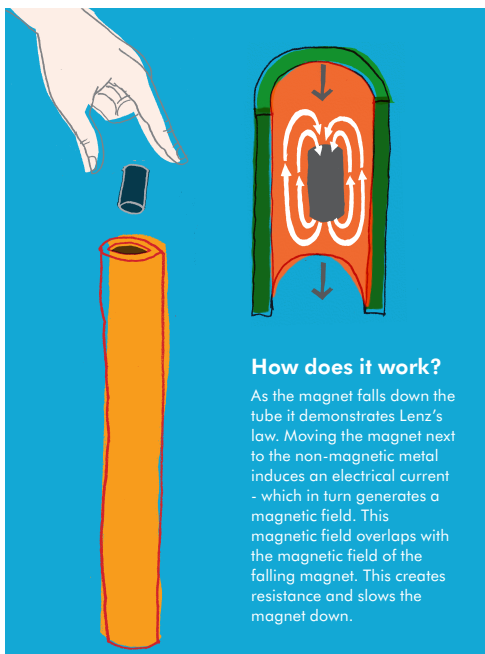
Create a working demonstration of Lenz's law.

## The method

1. Drop the magnet into the tube.
2. Watch what happens.

## Materials

A 30cm long domestic copper plumbing tube  
Strong magnet that fits freely – but closely into the tube



## Design icons



This system is similar to how electromagnetic brakes work on rollercoasters. The wheel is the tube, and the magnet is attached to the chassis of the train. The movement of the train is slowed without any friction parts to wear out.