



Marble Generator

Introduction

When a magnetic marble passes through a copper wire coil, it induces a current that can be used to light an LED. *Marble Generator* explores the connection between mechanical and electrical energy, notably the relationship between wires and magnets. This relationship is key to a number of inventions, including wind turbines, speakers, electric cars and high-speed trains.

In this activity, students will explore the relationship between electricity and magnetism using a handheld marble generator.

After the small initial time and cost investment, the activity can be repeated with little effort and virtually no cost.