**Product Code . JL-M-971**

# Concept of Magnets and Electromagnetism Kit Teacher Version

## Description

**Concept of Magnets and Electromagnetism Kit Teacher Version**

- This educational kit contains materials and instructions suitable for safe hands-on inquiry-based experimentation into the nature and properties of magnets and electromagnetism.
- This kit is primarily aimed at students in Middle School but may be used by Elementary or High School students by slightly altering the instructions.
- Instructions are also included for Science Fair activities and optional Probe ware/Data-Logging activities. Experiments that can be performed include how a compass works, why and how magnets react to things, is electricity magnetic, working of an electromagnet, can magnets generate electricity, analyzing a generator, construction of a motor etc.
- Items included in the kit Dynamo Generator AC/DC-1, Motor model-1, Bar Magnet-2prs, Horseshoe Magnet-1, Aluminium Strip-1, Iron Strip-1, Copper Strip-1, Zinc Strip-1, Electromagnet-1, Contact Key-1, Magnetic Compass-2 & Oversteps Law Apparatus-1.
- **Lab That Have Been Provided**
- **How does a compass work?**
- Which way does the compass point?
- What do we use compasses for?
- Will a magnet affect a compass?
- How does a compass work?
- Is the earth a magnet?
- **How do Magnets React to things?**
- How do poles react to each other?
- How do magnets react to other substances
- Can a magnet move a magnet?
- **Is electricity magnetic?**
- Will electricity affect a compass?
- Oersteds Law Apparatus.

- **Working with the Electromagnet**
- Build the Electromagnet.
- Examine the Electrical Circuit you have just made.
- Working with the Electromagnet
- **Can Magnets Make Electricity?**
- Build the electricity sensor
- **Demonstrating the Generator**
- Demonstrate the Generator