

# ■ Chapter 2: Types of Magnets

## Input Page/Notes

\* Glue in the two cut-outs first.

### Chapter 2: Types of Magnets

There are 3 types of Magnets

(Write definitions under each flap of cut-out.)

1. Permanent Magnet: an object made of matter that is permanently magnetized.
2. Temporary Magnet: a magnetic object that becomes a magnet through a process called magnetization
3. Electromagnet: a temporary magnet produced by an electric current

(Write under flaps of cut-out.)

Magnetization: the conversion of a magnetic object into a magnet

- How it works: If you run a magnet over a magnetic object, you can convert that object into a temporary magnet.
- During magnetization, you must run the magnet IN THE SAME DIRECTION over the object several times
- ONLY magnetic objects can be magnetized

Demagnetization: the loss of a magnet's magnetic force

- Heating, hammering or dropping a magnet can demagnetize a magnet
- Temporary magnets are easy to demagnetize
- Permanent magnets are more difficult to demagnetize.
- It's important to handle permanent magnets with care because jarring the magnet over time will weaken it
- Heating a permanent magnet to very high temperature can completely demagnetize it