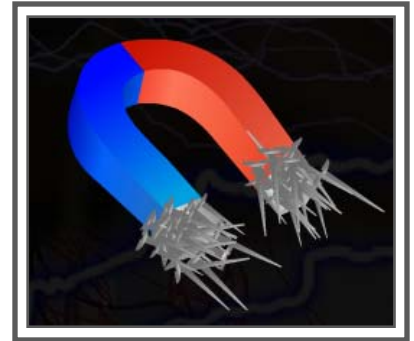


## Magnetic and Non-magnetic Materials

### Magnetic Materials

- Materials that are attracted by a magnet are called magnetic materials.
- Objects made of materials such as iron; cobalt and nickel are magnetic objects.
- Examples of magnetic materials include iron nail, key, metal spade, needle and metal door handle.



### Non-Magnetic Materials

- Materials that are not attracted by magnets are called non-magnetic materials.
- Modern coins are made of uniform mixtures of different metals so they become non-magnetic.
- Examples of non-magnetic materials include rubber, coins, feather and leather.



Rubber



Coin

### Types of magnets

**Bar magnets:** In these magnets, the poles are located at the ends of the bar.

**Cylindrical magnets:** In these magnets, the poles are located at the two circular ends of the cylinder.

**Horseshoe magnets:** In these magnets, the poles are located at the two free ends of the 'U' shape.

**Dumb-bell shaped magnets:** In such magnets, the poles are located at the two dumb-bell shaped ends.

