

## I. Magnetic Properties

## A. elements attracted

1. iron
2. nickel
3. cobalt

## B. poles

1. strongest parts
2. in pairs (north and south)
3. Law of...
  - a) like poles repel
  - b) opposites poles attract

## II. Magnetic Fields

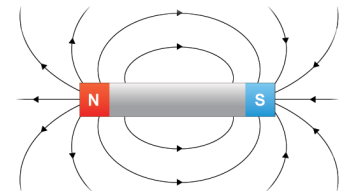
## A. magnetic "force" surrounding magnets

## B. factors affecting magnet's ability to move objects

1. distance between object and magnet [closer, stronger]
2. type of magnet used [some magnets stronger than others]
3. mass of object [more massive the object, harder to move]

## C. shape of fields

1. drawn: [field lines don't cross]
2. closer field lines, stronger field



## D. effect of fields (things damaged by fields)

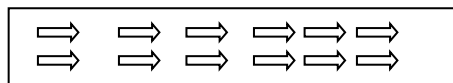
1. computer hard drives (erases data)
2. credit/bank cards (erases automatic read strip)

## E. Earth a giant magnet

## III. Magnets and Molecules (Domains)

## A. molecular arrangement

1. magnetized iron: molecules (domains) ordered



2. non-magnetized iron: molecules (domains) not ordered

