

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

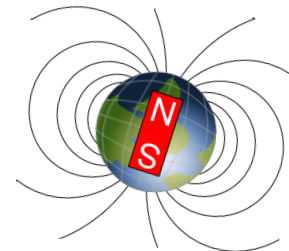
A. magnetic “force” surrounding magnets

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)

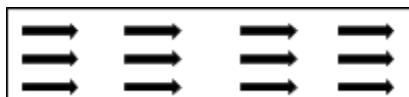
- 1. computer hard drives (erases data)
- 2. credit/bank cards (erases automatic read strip)

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

