

**STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING  
TELANGANA, HYDERABAD.  
ACADEMIC YEAR 2020-21  
LEVEL - 2**

Class : 6

Medium : English

Subject : General Science

Name of the chapter : PLAYING WITH MAGNETS

Worksheet No : 9

Name of the topic / concept : MAGNETIC AND NON-MAGNETIC OBJECTS

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**NAME OF THE STUDENT:**

**CONCEPTS:**

1. Magnetic objects
2. Non-magnetic objects

**LEARNING OUT COMES:**

The learner ...

1. Identifies magnetic and non-magnetic objects.
2. Draws the different shapes of magnets.

**CONCEPT PRESENTATION:**

Take a pin holder, drop some pins, paper clips, iron nails, pencil, rubber, piece of papers.

- Which objects attached to the cap of the pin holder? Which do not attach?

Pins, paper clips, iron nails attach to the top of the pin holder. While the other objects pencil, pen, rubber, piece of papers falls in to the pin holder. The cap of the pin holder contains a magnet which attracts objects.

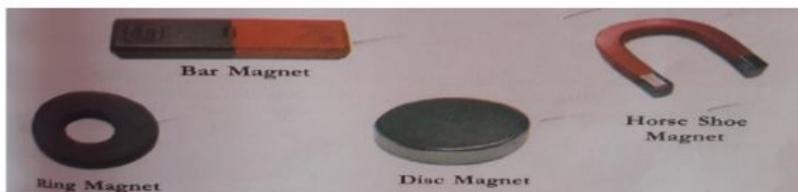
- Why do the pins get attracted to the cap of the pin holder?
- Does it attract objects other than pins?
- What material is needed to make a magnet?

Magnets have the property of attracting some objects. Usually magnets are made of steel or iron, however special alloys of iron, nickel, copper, cobalt and aluminum can be made in to powerful magnets.

Magnets are divided in to two types.

1. Natural magnets
2. Man-made magnets

## SHAPES OF MAGNETS :



- Does a magnet attract all kinds of objects?

Take one bar magnet and touch the magnet to iron nail, plastic scale, a piece of glass, brass key, pen, pencil, knife, piece of chalk, wooden piece.

Observe and record your observations in the following table

Name of the Object	Material of which the object is made iron/plastic/aluminum/wood/glass/any other	Attracted by magnet Yes/No
Nail		
Plastic scale		
A piece of glass		
knife		

- Which materials are attracted by a magnet?
- Which materials are not attracted by a magnet?

The materials that are attracted by magnets are called '**Magnetic materials**'.

The materials that are not attracted by magnets are called '**Non-magnetic materials**'.

### SELF EVALUATION:

1. List out the magnetic and non-magnetic materials in your home?
2. Draw different shapes of magnets.
3. Which of the following object contains a magnet ----- ( )  
A) Torch    B) Radio    C) Wooden stick    D) Watch