

FUN WITH MAGNETS



MODULE-3/3

WE HAVE LEARNT IN LAST CLASS:-

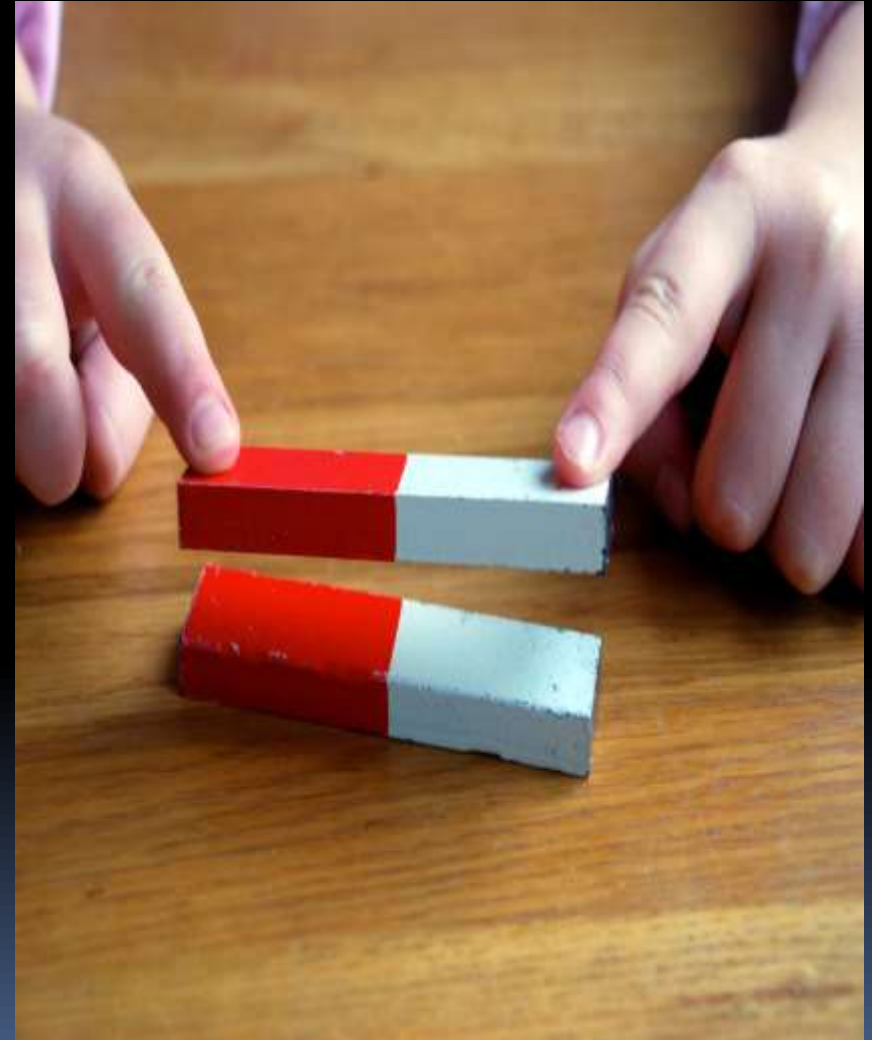
- Magnetic materials are always sticking at the end of the magnets.
- Poles of a magnet are said to be near the ends.
- Emperor of China-Hoang Ti had a chariot with a statue of a lady that could rotate in any direction.
- The extended arm of that lady always pointing towards South.
- Each magnet has two magnetic poles-North and South.
- A freely suspended magnet always aligns in North and South directions.
- In olden days travelers used to find directions by suspending natural magnets with a thread.
- A device that is use to find the direction at any place is called Compass.

THIS MODULE CONTAINS:-

- Attraction and repulsion between magnets.
- Make your own magnet.
- Store your magnets safely

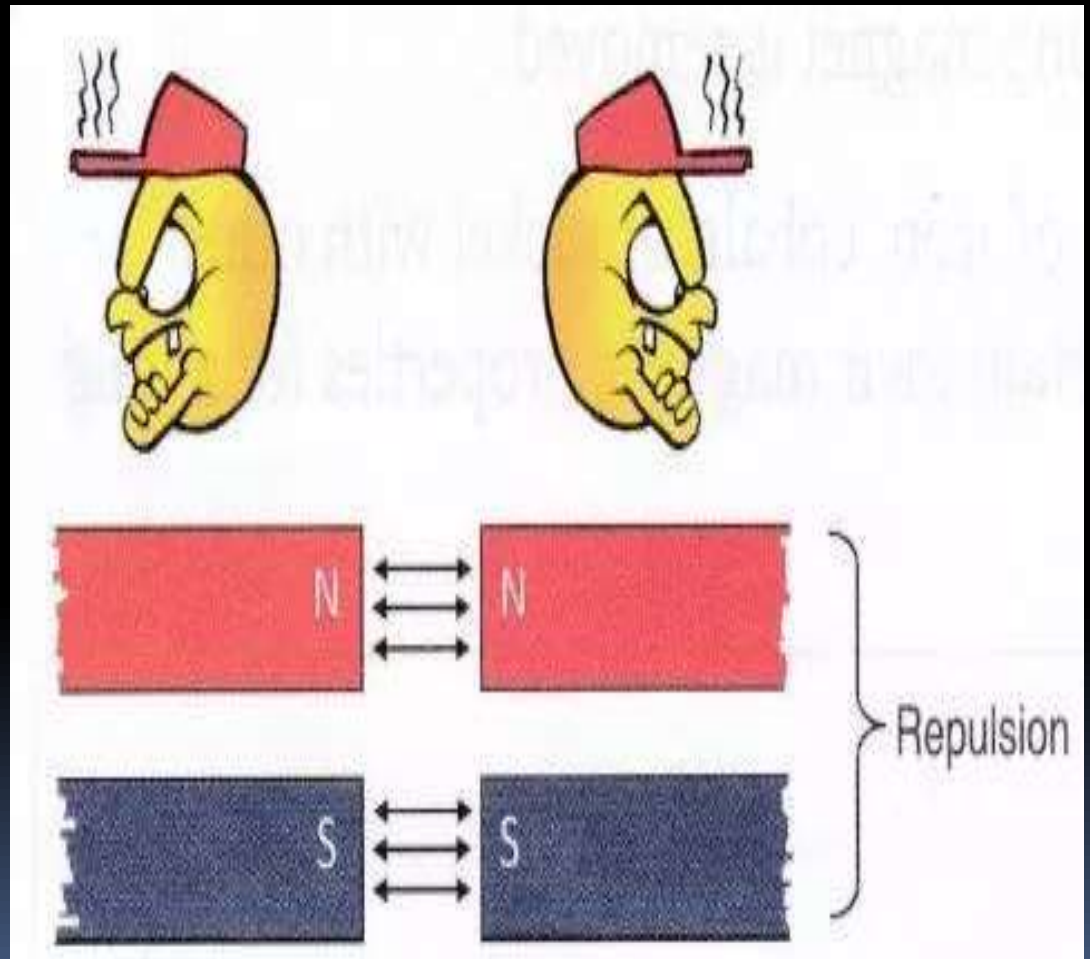


ATTRACTION AND REPULSION BETWEEN MAGNETS



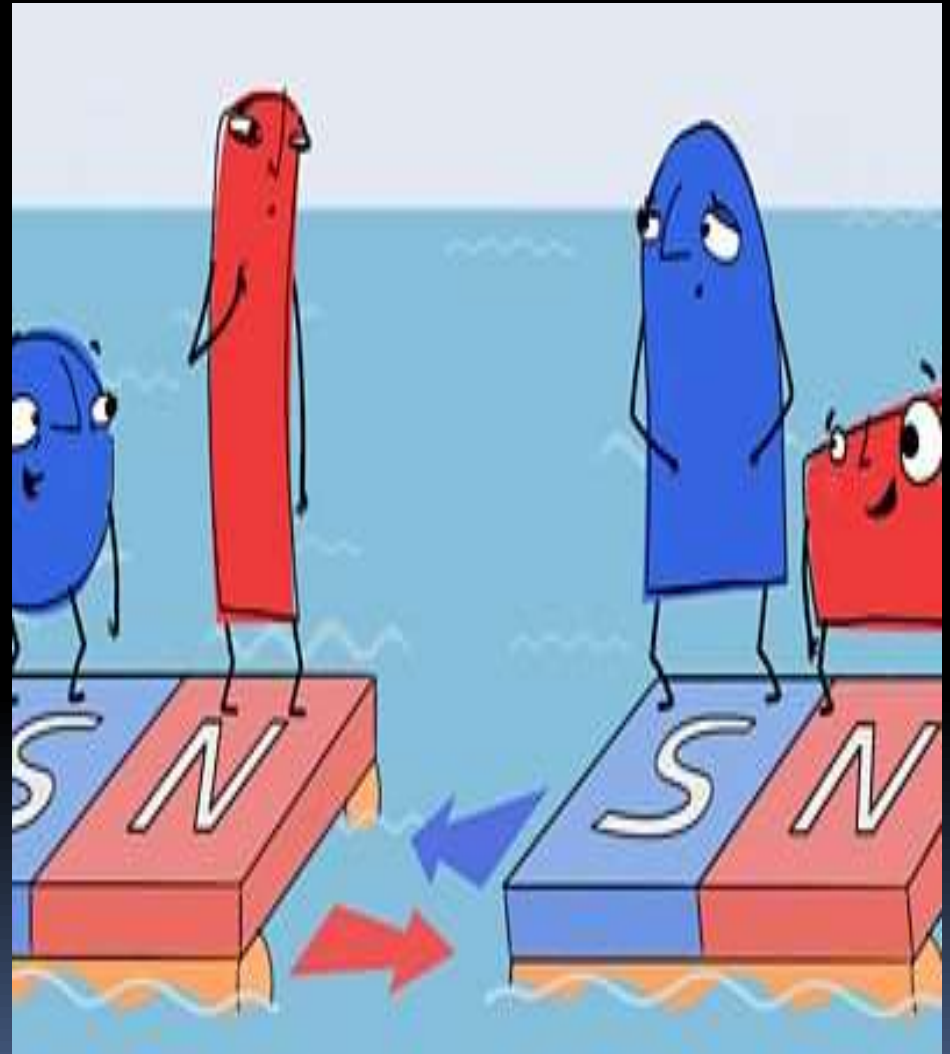
LET'S HAVE SOME FUN WITH MAGNETS

Observe the picture carefully and note down some observations.



- ❖ In this picture two boats are there with magnets.
- ❖ Hicky and Picky are meeting after long time.
- ❖ Observe the poles written on the boat very carefully.
- ❖ Note down your observations.
- ❖ Can they meet?

Continuation.....

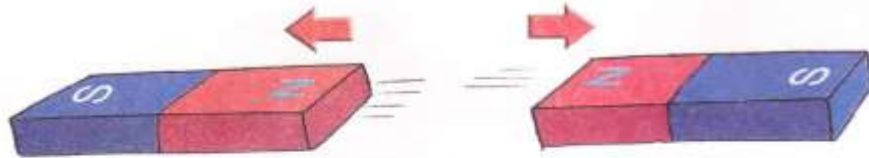




Look! They attract each other.



North pole attracts South pole.



North pole repels North pole.



South pole repels South pole.

They repel each other.



CONCLUSION

Opposite poles attract



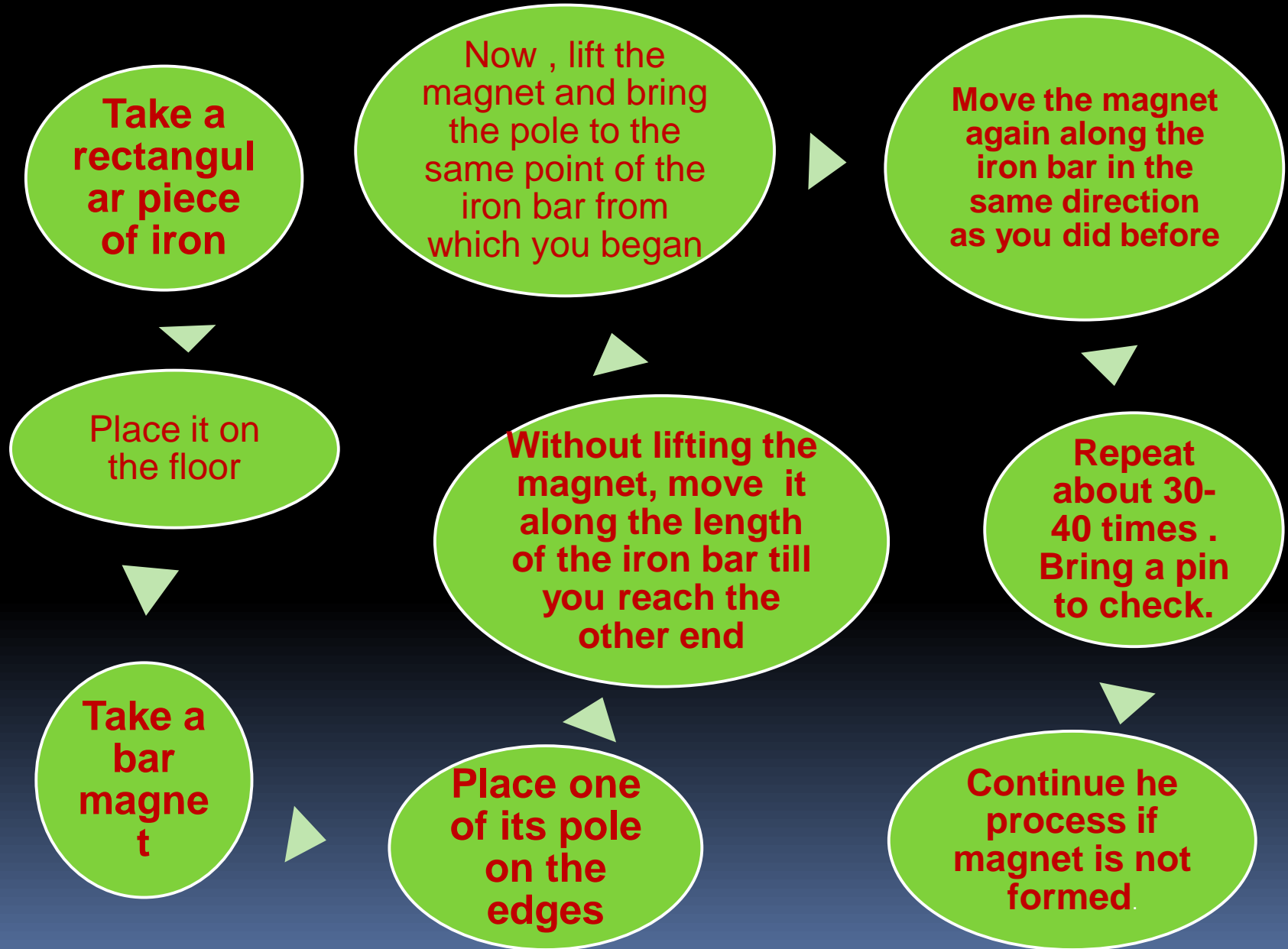
Same poles repel



MAKE YOUR OWN MAGNET



STEPS:-



A FEW CAUTIONS:-



Dropping from a height

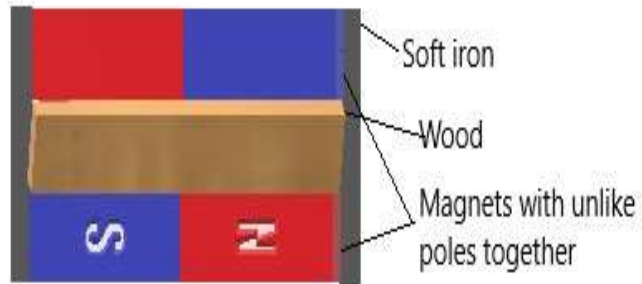


Hitting with a hard object like hammer

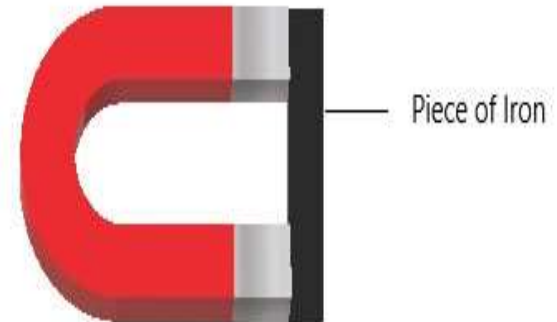


Applying heat

STORE YOUR MAGNET SAFELY



Storing Bar Magnet



Horse - Shoe Magnet

Continuation.....

FOR BAR MAGNETS:-

- Magnet should be kept in pairs with their unlike poles on the same side.
- They must be separated by a piece of wood while two pieces of soft iron should be placed across their ends.

FOR HORSE –SHOE MAGNETS:-

- One should keep a piece of iron across the poles
- Keep magnets away from cassettes , mobile , television, music system , CDs etc.

SUMMARY

- Similar poles of magnets repel each other.
- Opposite poles of two magnets attract each other.
- There are several methods of making magnets.
- We can make a magnet of iron strip by rubbing it with the magnet for 30-40 times.
- Magnets lose their property on heating, hammering and dropping.
- Magnets becomes weak if they are not stored properly.
- We should keep magnets away from the gadgets like mobile, television, cassettes etc.



THANK
YOU

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