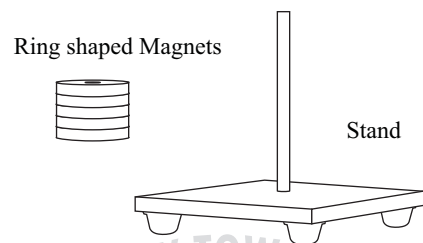


# FLOATING MAGNET SET

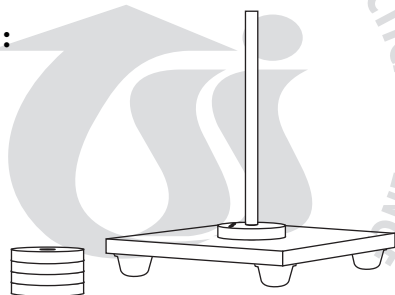
## Law of Magnetic attraction & repulsion

**Assembly :** Stand made from acrylic consists of 6 inch rod. And five red coloured ring shaped magnets.

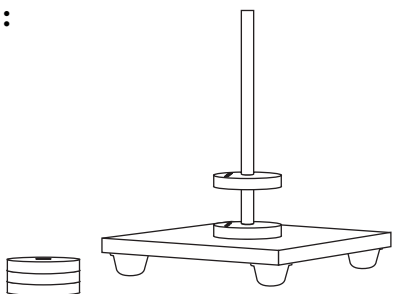


### To do and observe

#### Step 1 :

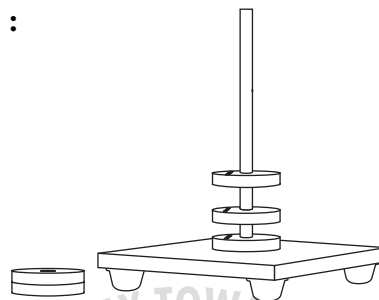


#### Step 2 :



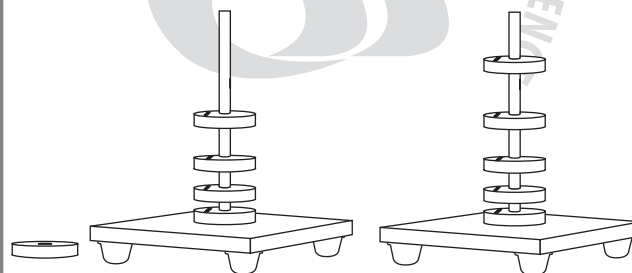
Drop another magnet through the rod such that the lower face of the second magnet and upper face of the first magnet are of same polarity. You will notice that the second magnet floats on the stand.

#### Step 3 :



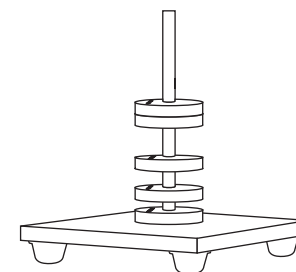
Drop one more magnet through the stand such that the lower face of the third and upper face of the second magnets are of the same polarity. Now you will notice that the third magnet also floats. Also notice that distance between first and second magnet is reduced.

#### Step 4 and 5 :



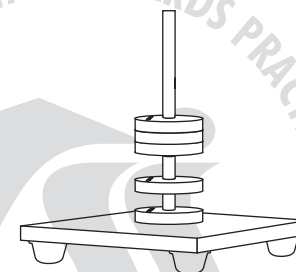
Repeat the step 2 and step 3 for fourth and fifth magnets. You will notice that in each case the magnets float and the distance between the lower magnets gets decreased.

#### Step 6 :



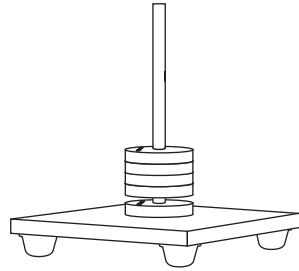
Now remove the top magnet out of the stand and leave it through the stand such that the upper face of the fourth magnet and lower face of the fifth magnet are of the opposite polarity. Here you will notice that the fifth and fourth magnets together starts floating.

#### Step 7 :



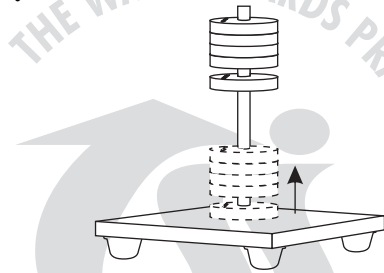
Now remove both 5th and 4th magnet together out of the stand and leave them together through the stand such that the upper face of the 3rd magnet and lower face of the 5th and 4th magnet together are of the opposite polarity. Here you will notice that the all the three magnets together start floating. (5th, 4th & 3rd)

**Step 8 :**



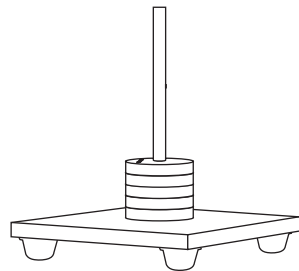
Repeat step 7 with 3 magnets. Now four magnets together starts floating.

**Step 9 :**



Move the first magnet beyond in upward direction you will notice that all the above four magnets also move in upward direction. Move the first magnet in downward direction. All the four magnets also move in downward direction.

**Step 10 :**



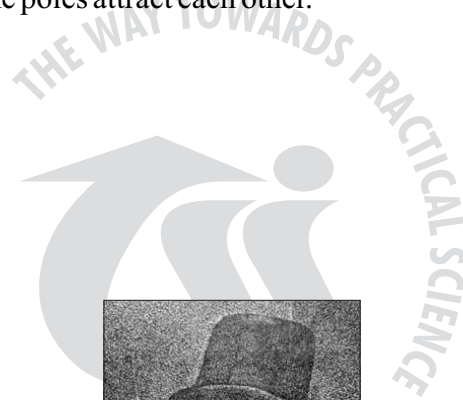
Repeat step 8 with four magnets.



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**What is going on ?**

From step 2 to step 5 the magnets float. This is because the like poles always repel each other. The activities from step 6 to step 10 shows that unlike poles attract each other.



**William Gilbert**  
(1544-1603)

Born : May 24, 1544  
Colchester  
Died : November 30, 1603  
London  
Occupation : Physician,  
natural philosopher



TARANG SCIENTIFIC INSTRUMENTS



# FLOATING MAGNET SET

**TARANG SCIENTIFIC INSTRUMENTS**

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