

What will you learn throughout the day?.....

1. Magnets & properties of magnets
2. How does a magnetic compass work?
3. Induced magnetism
4. Deflection of needle due to magnetic field
5. Battery cell possesses magnetic field
6. Working of motor
7. Types of magnet, Neodymium magnet
8. Magnetic levitation and MAGLEV train
9. What is Centre of Gravity & Centre of Mass?
10. How does Centre of Mass change?
11. Human body and its CG
12. Human postures and changing CG
13. Our internal balancing (vestibular) system
14. Why do things fall? Why do we fall?
15. How is rope-walk possible?
16. What is Litmus? What is an indicator?
17. What are common acids and common bases?
18. What is pH scale and how does litmus show it?
19. Composition of air
20. Acid - base reactions CO_2 formation
21. Properties of Carbon Dioxide
22. Air pressure and atmosphere
23. Guericke's famous experiment of air pressure
24. Effect of air pressure on our life
25. Airfoil designs and shapes
26. Potential energy in twisted elastic band
27. Conversion of potential energy into kinetic energy
28. Newton's 3rd law of motion

Things students should bring with them

1. Scissors
2. Cello tape
3. Exam pad
4. Tiffin box
5. Drinking water bottle
6. Compass box
7. Small screw driver (if available)



Academic year Based Courses

JUNIOR LEVEL

Every Sunday | Session : 1.5 Hours
Duration : 18 weeks | For standard 3rd & 4th
Take away kits
More than 35 Science experiments & projects

LEVEL 1

Every Sunday | Session : 2 Hours
Duration : 22 weeks | For standard 5th to 9th
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LEVEL 2

Every Sunday | Session : 2 Hours
Duration : 22 weeks | On completion of Level 1 or std 8/9
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We also offer different types of 1 hour to day-long Hands-On Science workshops, year long syllabus mapped activities for CBSC schools.

Sunday Science School



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8 States
65 Centres
25000 Students



Join & explore scientist within you...

1 Day Hands-On Science Workshop

Balancing Doll | Rubber Powered Boat
Revolving Apple | Magdeburg Hemisphere |
Litmus Test | Pen Stands on Finger |
Many more TAKE AWAY KITS...



Activities & Projects in the workshop



Litmus Test

Use of Blue and Red litmus. Acids and bases in kitchen. Indicators, their use.

Co₂ Formation

Chemical reaction, reactants and products of reactions, Acid base reaction, Carbon Dioxide, properties of Co₂.



Magdeburg Hemisphere

Air pressure, Guericke's experiment of 2 hemispheres, What happens when air is evacuated from hemispheres?



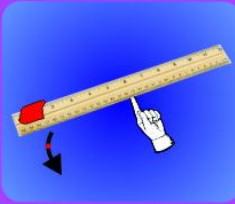
Lifting a Table using Magdeburg Hemisphere

One can lift a bench or even a table using air pressure created by hemisphere.



Rubber Powered Boat

Airfoil shaped fan pushes air backward. We can rotate a fan using twisted rubber band. When this boat is placed in water tub, the fan pushes water and moves forward.

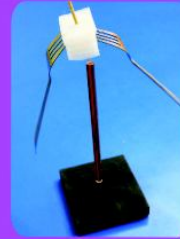


Balancing Scale

Balancing a scale on finger by finding its centre of mass, changing CM by adding weight on one side.

Balancing Doll

Using 2 steel forks, make a wonderful doll, that balances itself on top of a pencil. Know about balancing and why objects fall.



Balancing Challenge

Balance a pencil in such a way that its tip rests horizontally on top of other pencil.

Pen Stands on Finger

It is interesting to make a pen stand on fingertip using balancing technique. This explains CM concept properly.

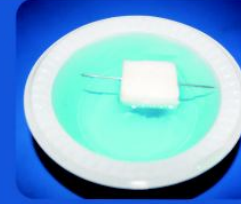


Balancing Question

This is an interesting toy. CM of 2 things together is different than their separate Centre of mass.

Classroom Balancing Act

Human postures, how do we balance ourselves? Our vestibular system, Body's CG and how do we adjust our CG to sit, to get up etc.



Floating Compass

Magnetize a needle and make a floating compass. Identify North South directions using this compass.

Deflection of Needle

Magnet and magnetic field can cause its effect on magnetic compass. Observe deflection of needle in presence of magnetic field.

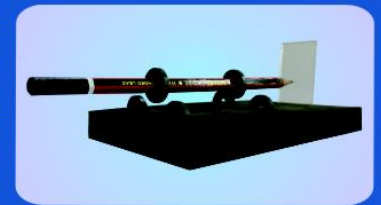


Magnetic Strength

As you attach paper clips to magnet, they attract more clips. How many clips can a magnet hold like this? Try with weak and strong magnets.

Levitating Magnets

Attraction and repulsion between poles can be used to make an interesting project of Levitating magnets.



Revolving Apple

Michael Faraday demonstrated working of DC motor. Make a revolving apple made of Copper wire. This is similar to the experiment demonstrated by inventor of Motor.

.....All take away kits