

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

1. Types of lenses.
2. Image formation in convex lens.
3. Types of image. Virtual and Real images
4. Focal length of convex lens and focal point
5. Magnification due to convex lens
6. Working of our eye
7. Eye structure and image formation
8. Working of film projector
9. How is image formed due to projection
10. Types of food that we eat
11. Fats, Proteins and Carbohydrates in the food
12. Necessity of these molecules for our body
13. Testing of Fats, Proteins and Starch
14. Balanced diet
15. Miscible and immiscible liquids
16. Density of liquids
17. Role of Detergent in clothes washing
18. Use of pulleys and gears in our life
19. Pulley ratio and its relationship with diameter
20. Increasing or decreasing RPM
21. Changing direction of rotations using pulleys
22. How does Rope way work?
23. Applications of rope way in our life.

Things students should bring with them

1. Cutter
2. Scissor
3. Fevicol tube
4. Cello tape
5. Exam pad
6. 1.5 volt pencil cell
7. Tiffin box
8. Drinking Water bottle
9. Compass box



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

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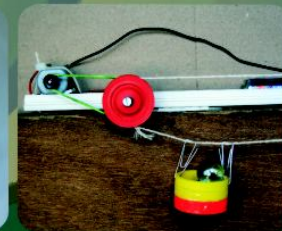


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1 Day Hands-On Science Workshop

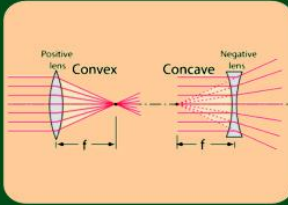
Working of Eye | Film Projector |
Food Tests | Electrical Board Game |
Motorized Rope-way Model
& Many more TAKE AWAY KITS...



Activities & Projects in the workshop

Image Formation using Lens

What are lenses? Difference between Convex and Concave lenses. What is image, its types. Actual image formation



Focal Length and Focal Point of Convex Lens

Measuring focal length and focal point of convex lens.

Magnification of a Lens

How to find out magnification of a convex lens with simple technique.

Human Eye Model

Human eye is a complex organ. Know about its working. What is aperture of eye, how iris muscles control aperture, image formation on retina and role of brain.



Working of Film Projector

See projection of film on wall. Develop a complete projector at home.



Testing Food for Presence of Starch

Use of Carbohydrates in living creatures, Simple sugar, What is starch, how to test it, starchy foods.

Fat Test of Food

Lipids and fats. Their importance in our life. Sources of fats, why should we balance our diet. Junk food and its harmful effect



Protein Test of Food Articles

Importance of proteins for our growth, sources with proteins, Good food habits, Vitamins and minerals.

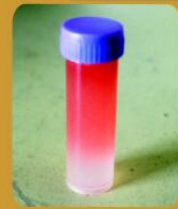
Immiscible Liquids - Oil and Water

Miscible and Immiscible liquids. Density of liquids. Oil and water do not mix even if you try to mix them.



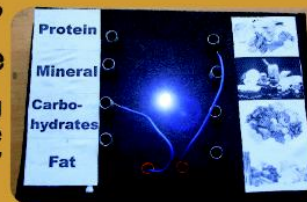
Detergent Effect on Oil and Water

When we add piece of detergent, oil and water form a diffused solution, effect of detergent on oil and water, how do we clean our clothes?



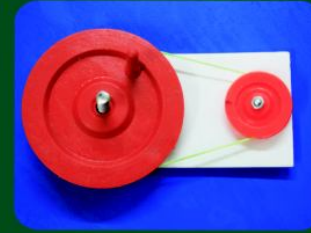
"Match-it-right" Electrical Board Game

Very interesting and fascinating electrical board game to create any number of "Match the pairs"



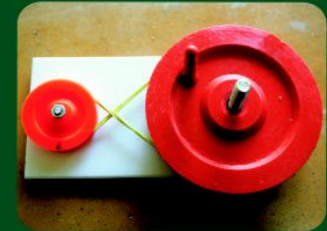
Changing Speed of Rotation (RPM)

Pulleys are used to change rotational speed and direction. Pulley ratio and diameter of pulleys. Applications of changes in RPM.



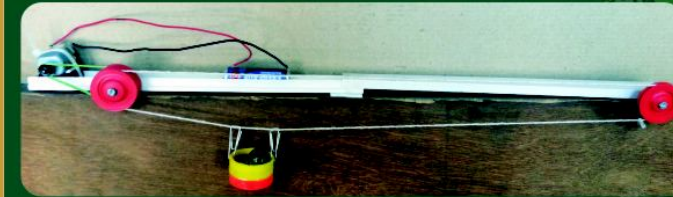
Changing Direction using 2 Pulleys

We can change direction of rotation while changing RPM.



Make a Rope-way

Build an application of pulley system and see working of Rope-way or similar mechanisms. Use of pulley and belt in various applications, conveyor belt etc.



.....All take away kits

Busy Hands – Busy Brain

- People of all ages learn best when involved in meaningful experiences.
- Children use the senses to learn.
- Children learn by active involvement in experiences.
- Enjoy tasks that involve manipulating materials and objects.

Benefits of "hands-on" science

- Enhances brain function & episodic memory.
- Heightens their appreciation of how science works.
- Enhances their understanding of scientific concepts.