

Explore

## Standard 2

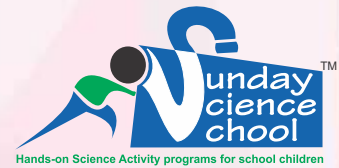
We have started formal topics in science from 2nd std. Children will explore things around to know more about them.

Air activities, sound activities, day and night, colour mixing, soap activities etc. are introduced this year to give them joy of exploration. Cylindrical mirror based fun activities, interesting rolling mouse and puzzles to arrange 7 hexagons and disks are added to excite and engage children for creativity and imagination.

Children will also make a kaleidoscope using mirrors.

They have seen images in mirrors during 1st std.

Making kaleidoscope will be to develop 'fun' application using mirrors.



### Hands-On Science Activities

#### 201. Know about Air



- 1 Invisible shield
- 2 Feel the force of air
- 3 Fill the bottle
- 4 Blow it out

Air is shielding us  
Air is a force  
You can blow air  
Air pressure does not allow bottle to fill

#### 202. Folding paper Activities



- 1 Folding paper activity
- 2 Make a durable paper bag
- 3 Use of paper bag

Paper folding skills  
Useful things from waste material,  
awareness about environment



## Standard 2



### 203. Sound



- 1 Whistling spinners  
\_\_\_\_\_
- 2 Straw flute  
\_\_\_\_\_
- 3 Balloon amplifier

Sound is invisible  
You can see its effect  
What is sound through  
tube. Moving air  
produces sound

### 204. Colours



- 1 7 coloured Newton's disk  
\_\_\_\_\_
- 2 Mixing of 2 colours  
\_\_\_\_\_
- 3 Making colour mixing disks

7 colours make white  
colour You can mix  
colours to get  
different colour,  
Primary and secondary  
colours.

### 205. Kaleidoscope



- 1 Seeing through mirrors  
assembly
- 2 Making a kaleidoscope
- 3 Observation of patterns

Designs using mirror  
Changing patterns  
Colours in design,  
Know how many times  
each object is visible

### 206. Earth



- 1 Day and Night model making
- 2 Using torch to see changing  
days and nights on the ball

What is day and  
what is night?  
Sun's rays  
Rotation of the earth,  
Half of the Earth has  
day and half has night.



## Standard 2



### 207. Syringe Activity



- 1 Making syringe assembly
- 2 Pushing piston using air pressure
- 3 Replacing air with water
- 4 Making Hydraulic jack

Force  
Air pressure  
Liquid pressure  
Jack, Using pressure to do the work

### 208. Fun with Soap bubbles



- 1 Make a round bubble maker
- 2 Different shapes of bubble maker
- 3 Coloured detergents also produce transparent bubble
- 4 Increase bubble size

Soap film  
Shape of bubble is round  
You can change size  
Creating your own bubble maker

### 209. Disk Puzzle



- 1 Shifting 2 and 3 disks using rules of the puzzle
- 2 Trying 3, 4 and more disks
- 3 Counting number of steps

Understanding shapes  
Solving puzzles  
Brain development  
Concentration

### 210. Obedient Balls



- 1 magnet fitment in all balls
- 2 Making 2-3-4-5-6 balls in geometrical shapes
- 3 Understanding poles in magnets

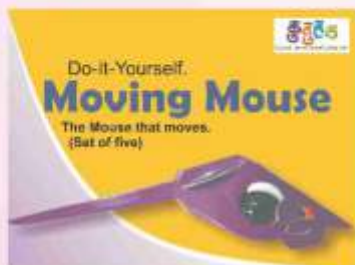
Fun of magnetic poles, Geometrical shapes, Triangle, square, pentagon etc



## Standard 2



### 211. Moving Objects



- 1 Moving (rolling) Mouse activity
- 2 Making mouse to roll rounds
- 3 Flying a flier activity

Motion, Force  
Objects on surface  
and in air, rolling

### 212. Magic Images



- 1 Making of cylindrical mirror
- 2 Observation of distorted images

The set has 8 cards.  
The distorted pictures  
come to life only when  
seen in cylindrical mirror.  
The set has reflecting  
silver paper. This forms  
a cylindrical mirror to see  
and understand the hidden  
pictures from distorted  
images.

### 213. Fortress



- 1 Making bastions, gate and walls
- 2 Assembly of the fort
- 3 Making canons and display of complete fort

Understanding history,  
monuments and their  
importance, skill  
development, model  
making and creativity.

### 214. Hexagonal Puzzle



- 1 Knowing colours of hexagons
- 2 Placing hexagons to match colours of facing sides

Place seven  
Hexagonal near each  
other in such a way  
that any two facing  
sides of adjacent  
Hexagons are of  
same color.