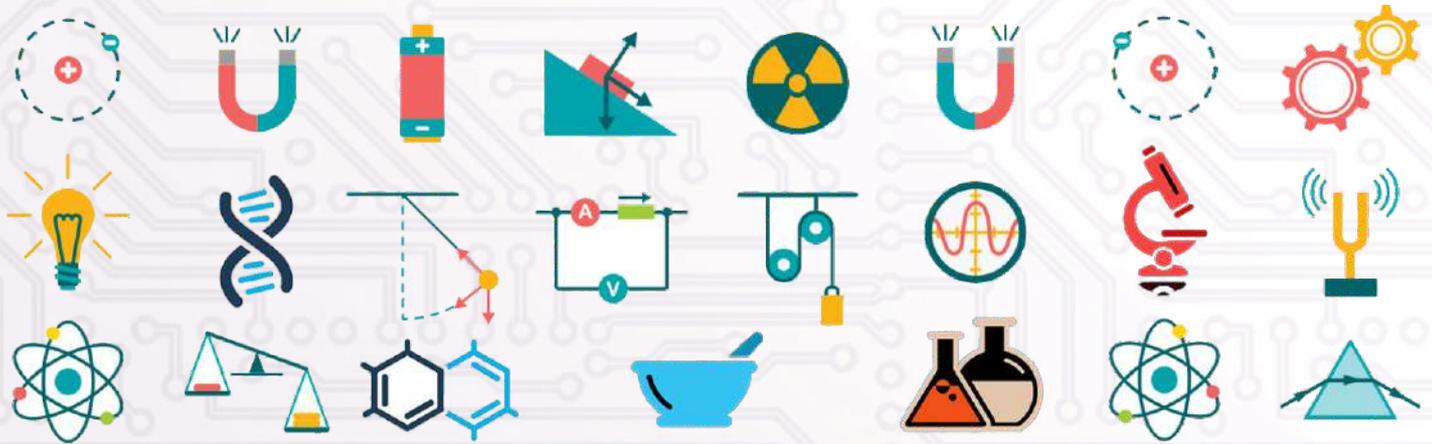


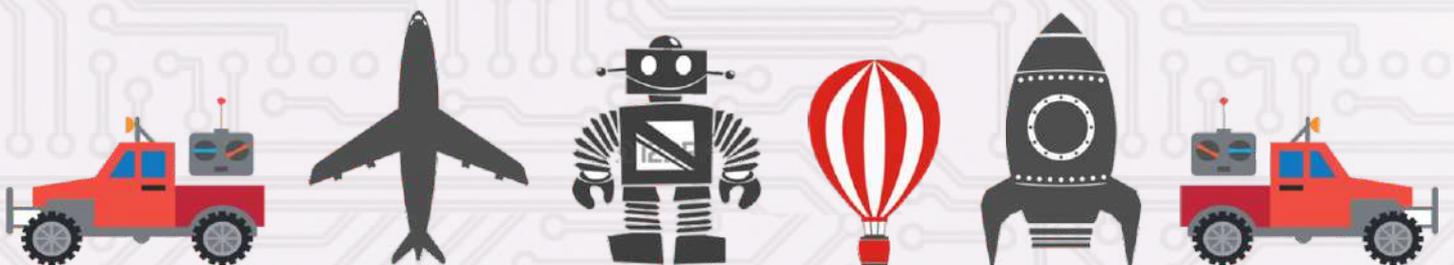
# pielabz<sup>TM</sup>

## Practicality In Education



**Education = Theoretical + Practical**  
**BUILD, LEARN & INNOVATE**

- ✓ pielabz helps students master fundamental scientific principle using hands on learning activities.
- ✓ Begin your scientific journey with our syllabus based activity kits!





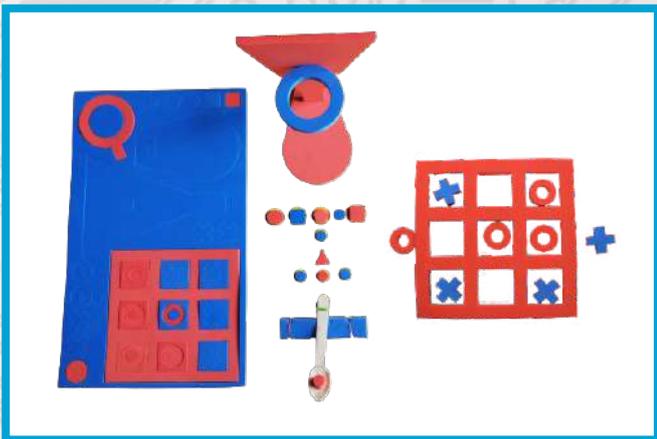
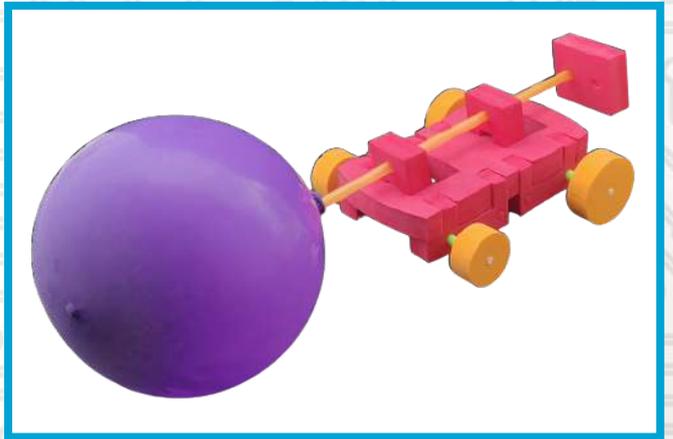
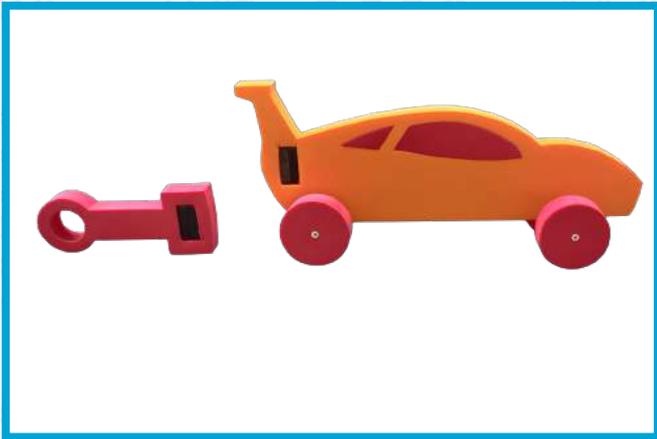
"The only source of  
knowledge is  
**EXPERIENCE**"  
-A.E.

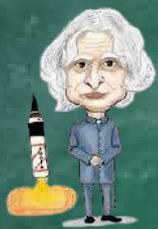
## Grade 1

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Emotions, Emoji, friends details</b>	Introducing myself
2	<b>3D animals + Sorting cards</b>	Animals around us
3	<b>Magnetic Car + Jumping magnets</b>	Transport and communication
4	<b>Monuments - 3</b>	Places of worship
5	<b>Playable indoor games</b>	Recreation
6	<b>Fun with Music</b>	Celebration

## Grade 2

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Balloon car, Balloon hovercraft</b>	Means of Transport
2	<b>Family tree, Family traits</b>	My family
3	<b>India and National symbols</b>	Our country
4	<b>Land &amp; Ocean adventure</b>	More about animals
5	<b>Our Festivals</b>	Celebrating together
6	<b>Clock, Hourglass</b>	Time





Learning gives creativity,  
Creativity leads to thinking,  
Thinking leads to knowledge,  
Knowledge makes you great.

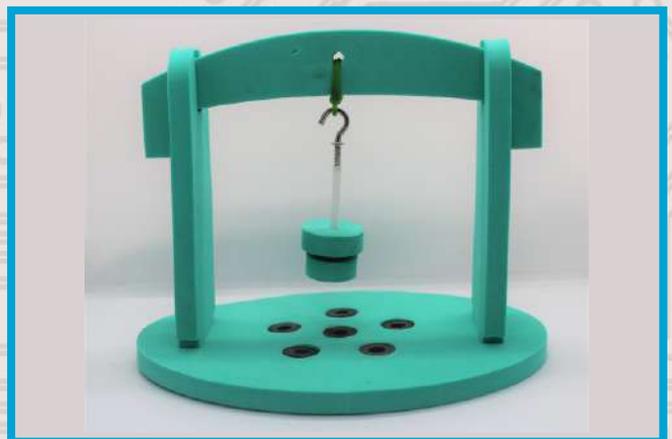
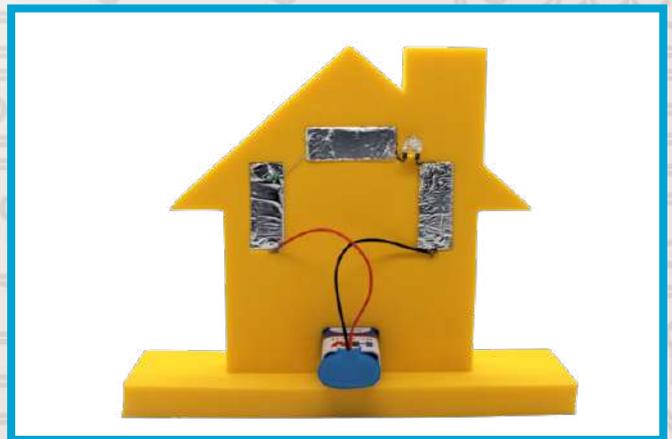
Dr. APJ Abdul Kalam

## Grade 3

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Building a bird, Birds of a feather</b>	Birds
2	<b>3 Types of housing</b>	Housing and clothing
3	<b>Internal body</b>	The Human body
4	<b>Weighing balance</b>	Measurement
5	<b>Germination</b>	Parts of a plant
6	<b>Day and night</b>	The earth

## Grade 4

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Maps &amp; directions, Anemometer</b>	Maps and travel
2	<b>Cable car, Types of pulley</b>	Going to School
3	<b>Global spice route</b>	Spicy riddles
4	<b>Digestive system, Food fact cards</b>	Digesting food
5	<b>Madhubani art, fun with colors</b>	The Valley of Flowers
6	<b>Solar system</b>	Our Universe





Tell me and I forget,  
Teach me and I remember,  
Involve me and I learn.

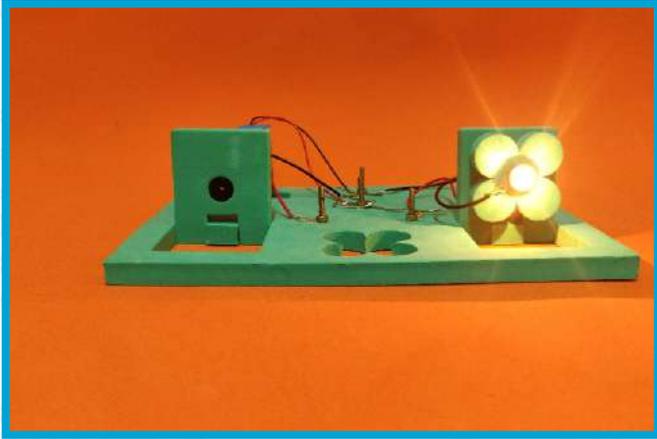
Benjamin Franklin

## Grade 5

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Skeleton system</b>	Bones and Muscles
2	<b>Solar lunar eclipse</b>	The Moon
3	<b>Hydraulic Jack, Rangoli</b>	Across the Wall
4	<b>Snake Charmer's Challenge</b>	A Snake Charmer's Story
5	<b>Richter scale</b>	Natural disasters
6	<b>Solar portable fan</b>	What if it Finishes...?

## Grade 6

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Double switch, Connectivity fun</b>	Electricity and circuits
2	<b>Rotating Magnets, Compass</b>	Fun with Magnets
3	<b>Fire sensor, O<sub>2</sub> for burning</b>	Air around us
4	<b>Bionic hand, Types of Joints</b>	Body movements
5	<b>Projector, Pinhole camera</b>	Light shadows and reflection
6	<b>Winnowing fan, Density of liquids</b>	Separation of substance





The essence of the scientific spirit is to realize what a wonderful world it is that we live in.

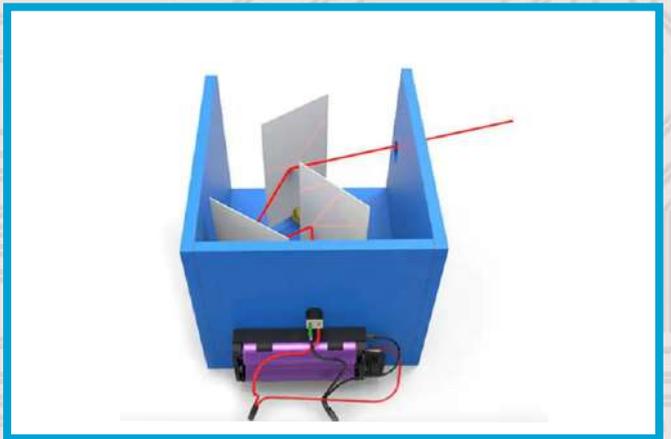
CV Raman

## Grade 7

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Fiber to Fabric, Knitting</b>	Fiber to Fabric
2	<b>Heating of metals, Convection carousel</b>	Heat
3	<b>Water level indicator, Water filtration</b>	Water a precious resource
4	<b>Electromagnet, Series and parallel circuits</b>	Electric current and its Effects
5	<b>Lungs, Spirometer</b>	Respiration in Organisms
6	<b>Reflection of light, Periscope</b>	Light

## Grade 8

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Drip irrigation, Sprinkler system</b>	Crop production and management
2	<b>Propeller car, Oval earth</b>	Force and pressure
3	<b>Vegetable power battery, Conduction of electricity with water</b>	Chemical effects of electric current
4	<b>Constellation box</b>	Stars and solar system
5	<b>RGB, Ishihara cards</b>	Light
6	<b>Hovercraft, Spring weight</b>	Friction





If I have ever made any valuable discoveries, it has been due more to patient attention, than to any other talent.

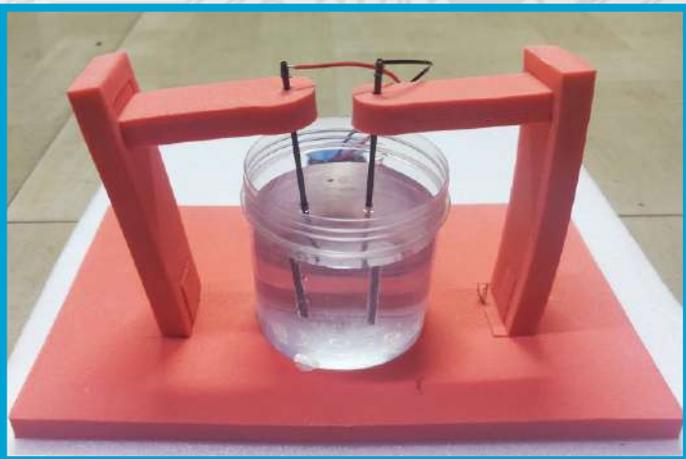
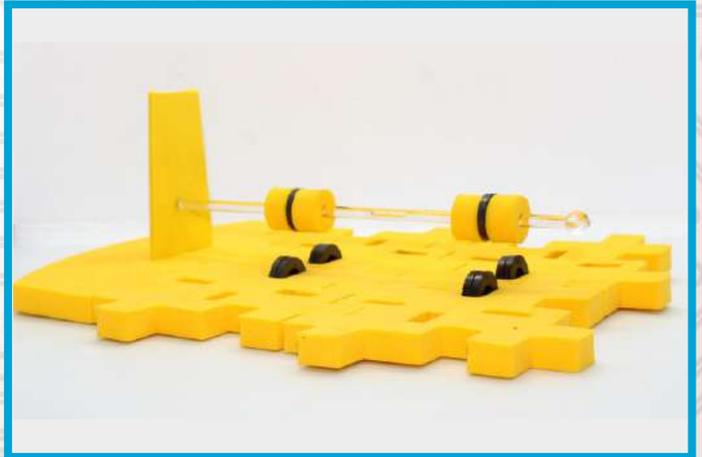
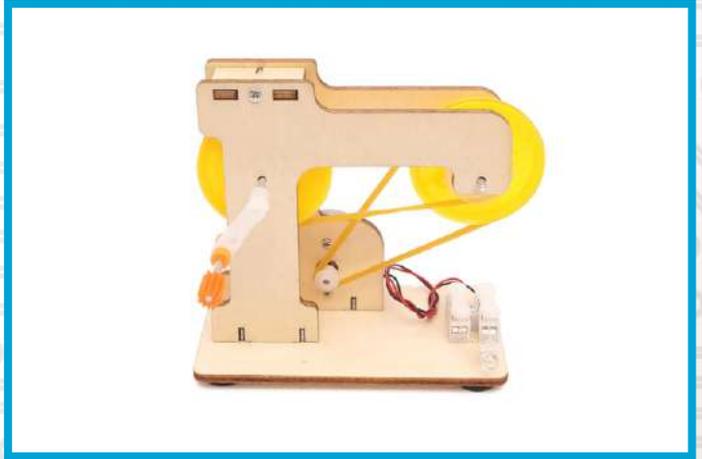
Sir Isaac Newton

## Grade 9

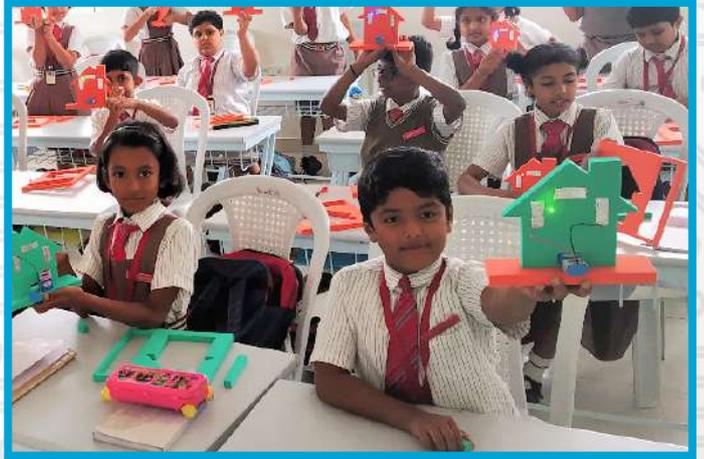
Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Atoms</b>	Atoms and molecule
2	<b>Vacuum cleaner</b>	Force and laws of motion
3	<b>Hand crank generator, Wind mill</b>	Work and energy
4	<b>Magnetic levitation, Parachute</b>	Gravitation
5	<b>Plant cell and animal cell, Microscope</b>	The fundamental unit of life
6	<b>Sensor Vehicle, Tuning fork</b>	Sound

## Grade 10

Sl. no	Experiment name	Chapter/ Learning outcome
1	<b>Making molecules, Test for Acids and bases</b>	Carbons and compounds
2	<b>DC generator, Galvanometer</b>	Magnetic effects of electric current
3	<b>Electroplating, Hydrolysis</b>	Chemical reactions and equations
4	<b>Working of Motor, Resistor</b>	Magnetic effects of electric current
5	<b>Bending of light, Dispersion of light</b>	Light
6	<b>Transfer of Energy, solar cooker</b>	Our Environment







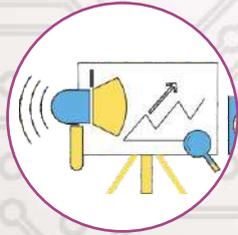
# Bringing STEM Activity from 2016



Holistic learning



Curriculum Ready



Result driven



Age appropriate.



Raw Materials



Project Assembly



Take Home



Activity kit



Assembly video



Step by step



Explainer Video



Worksheets



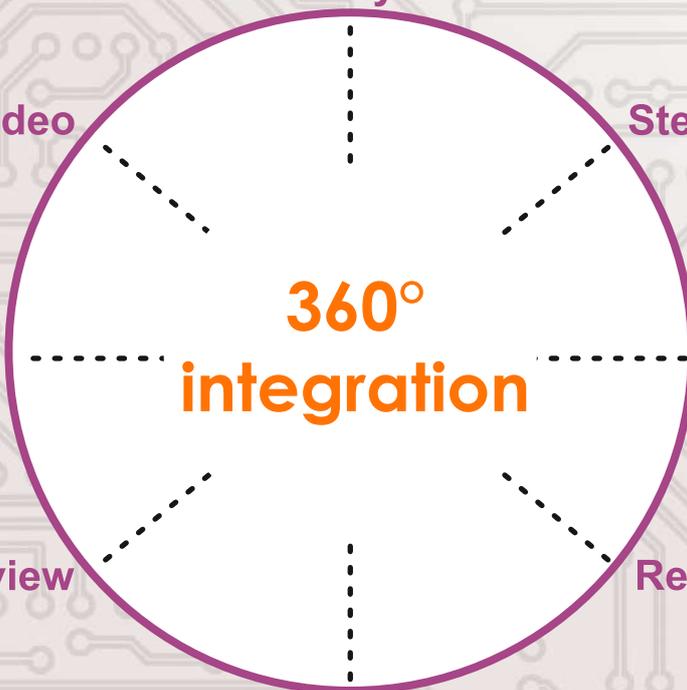
Assessment / Review



Real Time Activities



Mind maps





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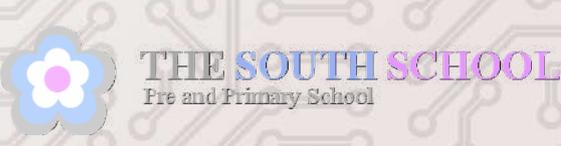
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