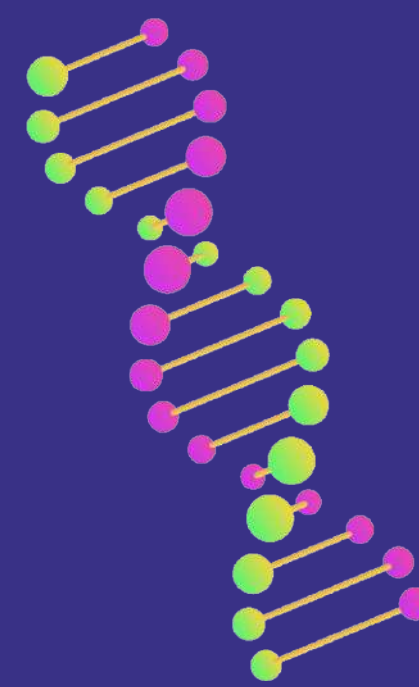
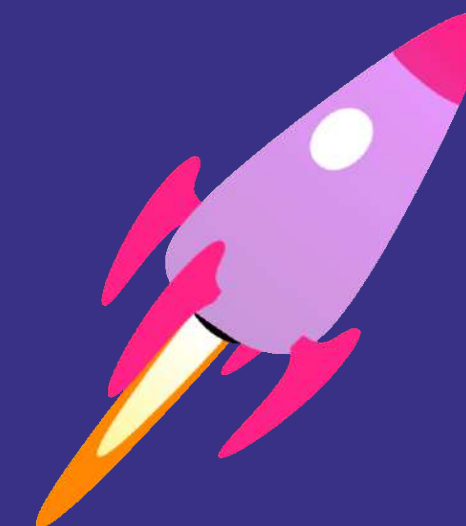




INDIA's first
STEM platform
with Learning
Management
System.



Curriculum based Hands-ON Science Program



C-STEM - CURRICULUM BASED STEM PROGRAM

- LEARNING MANAGEMENT SYSTEM
- STEM PROJECTS
- SCIENCE EXPERIMENTS
- WORKBOOKS
- PROTOTYPE BUILDING
- ROLE PLAYS
- VIDEOS




Age group: 6-15 years




It's all about increasing child's Creativity, Critical Thinking and Problem Solving skills! Pack of DIY activities...

SCIENCE QTSAV
Science is awesome

TOPIC: SOUND - BUGLE

Think a Ton!!

Don't be loud!



1. Is it possible to store sound in a box?
2. Can we humans hear all types of sound?
3. Why do we sound different when we speak with a blocked nose?
4. Can we "see" sound?
5. Can we communicate with each other without making a sound?

-----Know what's inside-----

Activity	Description
Engage	Imitate different types of sounds namely animal sounds, vehicle sounds etc. Learn about sound and its importance.
Explore	Explore how a vibrating object produces sound. Learn about different ranges of sound.
Elaborate	Build a balloon bugle and learn how it produces sound.
Explain	Learn about how sound is produced, sources of sound, different types of sounds, importance of sound in our daily lives, etc.
Evaluate	Test your understanding here!


www.scienceqtsav.com 1 © All rights reserved

SCIENCE QTSAV
Science is awesome

TOPIC: FORCE - MINI-MISSILE LAUNCHER

Think a Tan!!

Can I do any work without applying force?



1. How can we make an object start or stop moving?
2. How do you balance forces?
3. Can an object have force?
4. Can force be measured?

-----Know what's inside-----

Activity	Description
Engage	It's time to pull our thoughts together and think about how we use force every day in our life.
Explore	Learn about the types of forces and how they can be a boon or a bane.
Elaborate	Build a mini-missile launcher and learn about the forces that act on it!
Explain	Force affects direction and speed, it's all around us, so let's do pay heed!
Evaluate	Test your understanding here!

www.scienceqtsav.com 1 © All rights reserved

GRADE 1 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

FUNNY ORIGAMI

ORIGAMI FROGS|CLIMBING BUTTERFLY|CATTERPILLER

WIND FORCE

BALLOON ROKET| BALLOON CAR|HOVERCRAFT

FORCE AND MOTION

MINI CATAPULT

FORCE - PULL THEM OFF

PLAY WITH SLING SHOT

SOUND - MAKE SOME NOICE

TIC TAK | PHATAKA|CLAP IN THE AIR

SOUND INSTRUMENTS

BUILD ABUGLE | HARMONICA

MAGNETIC FORCES

MAGNETIC DEER | ANTIGRAVITY MAGNET

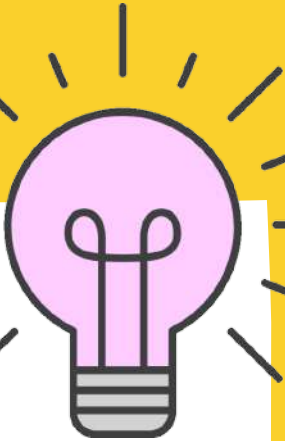
LIGHT-PROPERTIES

LED WIZARDS | GREETING CARD

MATERIAL SCIENCE

SLIME MAKING

Inclusions



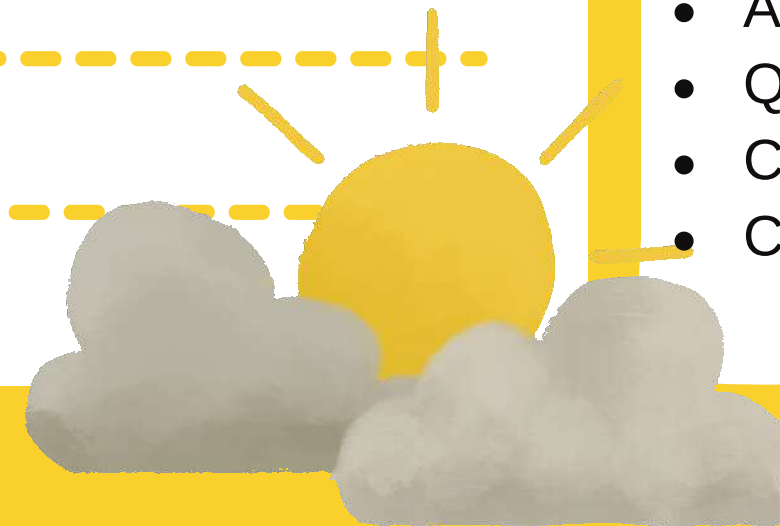
- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 3 Concept Classes
- 9 Project Classes

LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts



GRADE 1 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 2 CURRICULUM



CHAPTERS COVERED

MAJOR ACTIVITY

KIDDO ELECTRONICS

ELECTRONIC CANDLE

ELECTRICAL PROPERTIES

DESIGN A LED DIYA

SIMPLE CIRCUITS

DESIGN A CALLING BELL

OCEAN OF AIR

POP GUN PARACHUTE

AIR EVERYWHERE

DESIGN A RUBBERBAND POWERED SAIL BOAT

WIND TURBINE

DESIGN PIN WHEEL | FLYING SAUCER

LIGHT AND SHADOW

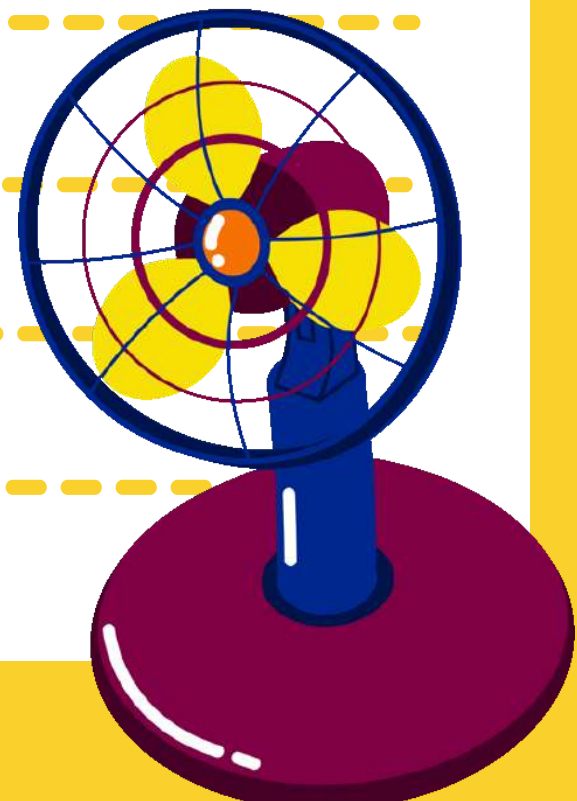
FANCY LIGHT

COLORFUL SCIENCE

MAGIC COLOR CARD

PROPERTIES OF LIGHT

DESIGN A PERISCOPE | GHOST SCOPE



Inclusions

- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 9 Concept Classes
- 9 Project Classes

LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts

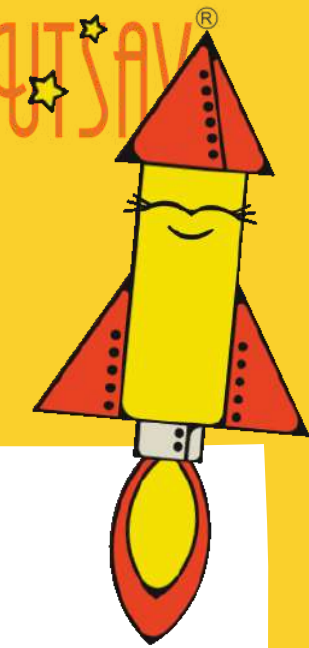
GRADE 2 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 3 CURRICULUM



CHAPTERS COVERED

MAJOR ACTIVITY

FUN WITH MAGNETS

MAGNETIC FAN| MAGNETIC PROPELLER

ATTRACTION & REPULSION

MAGNETIC PENCIL STAND

AIR POWER

MINI MISSILE LAUNCHER | STRAW LAUNCHER

MECHANICAL PROPERTIES

RUBBERBAND POWERED CAR

FUN WITH FALLING

GRAVITY CAR

MECHANICAL ENERGY

BOOMARANG CAR

LIGHT PROPERTIES

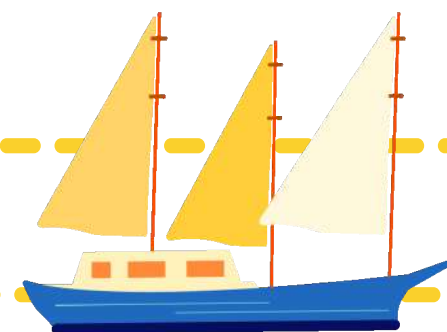
ENERGY WARRIOR

ELECTRICAL PROPERTIES

FESTIVAL LANTERN

SINK AND FLOAT

DESIGN A CATAMARAN (MOTOR BOAT)



Inclusions

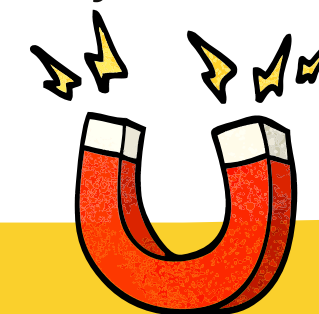
- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 9 Concept Classes
- 9 Project Classes

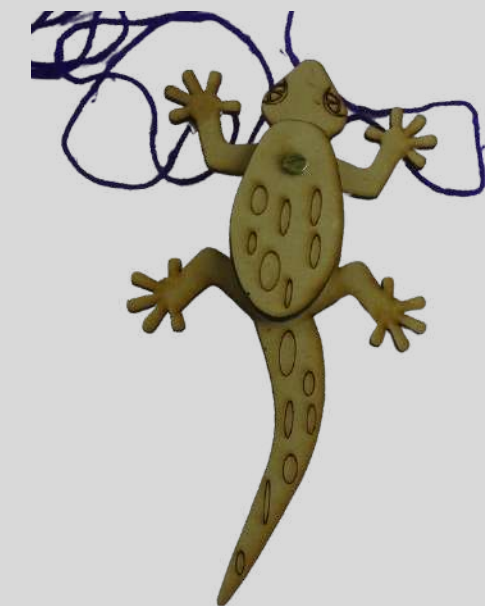
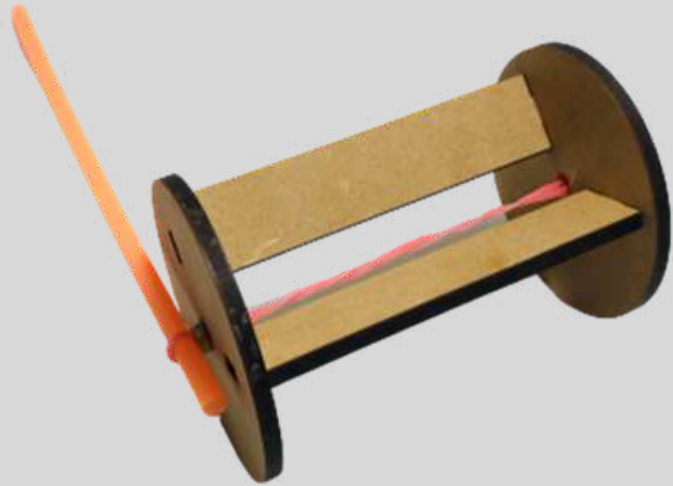
LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts



GRADE 3 CURRICULUM

SAMPLE LIST OF MAJOR ACTVITIES





GRADE 4 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

PROPERTIES OF METALS

BUZZ WIRE

SIMPLE CIRCUITS

DESIGN A SECRETE CANDY BOX

MOTION

RUBBERBAND PISTOL

FORCES

NEWTON POWERED CAR

MECHANICAL ENERGY

PULL CAR

SOUND INSTRUMENTS

FLAP WHISTLE | BALLOON TRUMPET

FUN WITH LIGHT

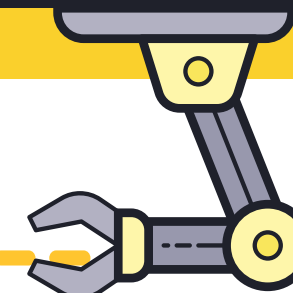
DESIGN A WHELOSCOPE

LEVITATION SCIENCE

HOVERING MAGNET

MAGNETS

MAGNETIC TRACK



Inclusions

- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

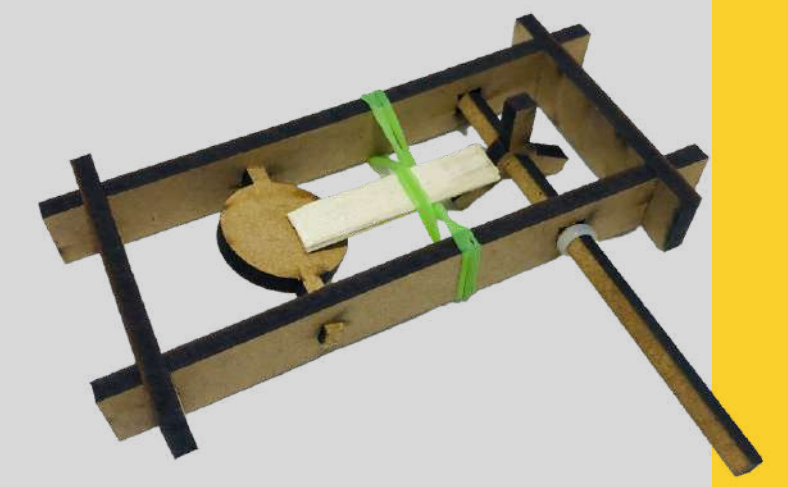
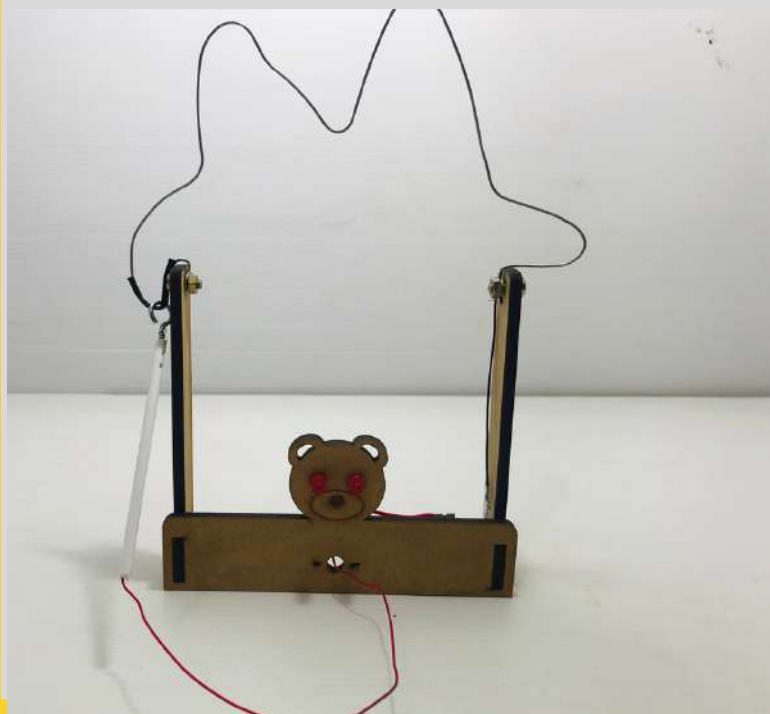
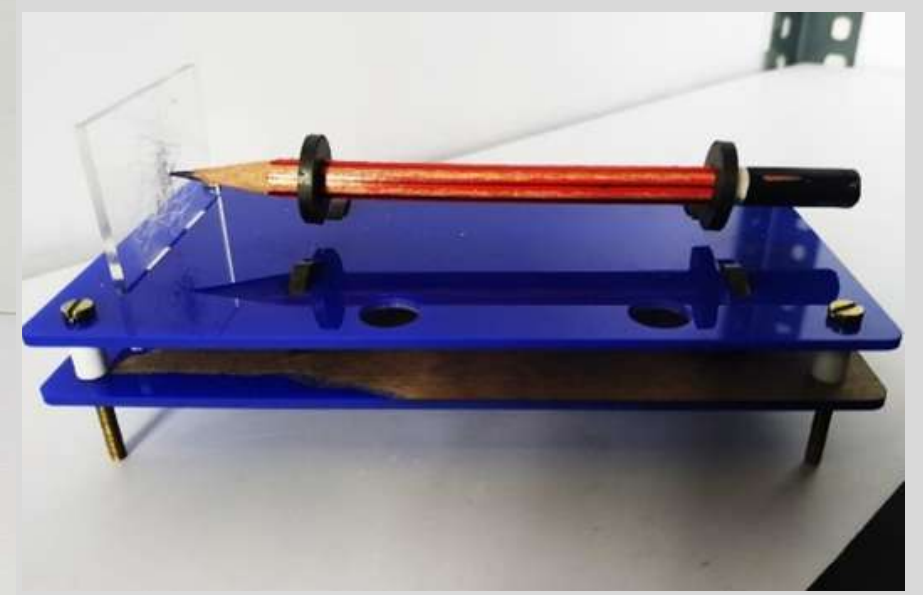
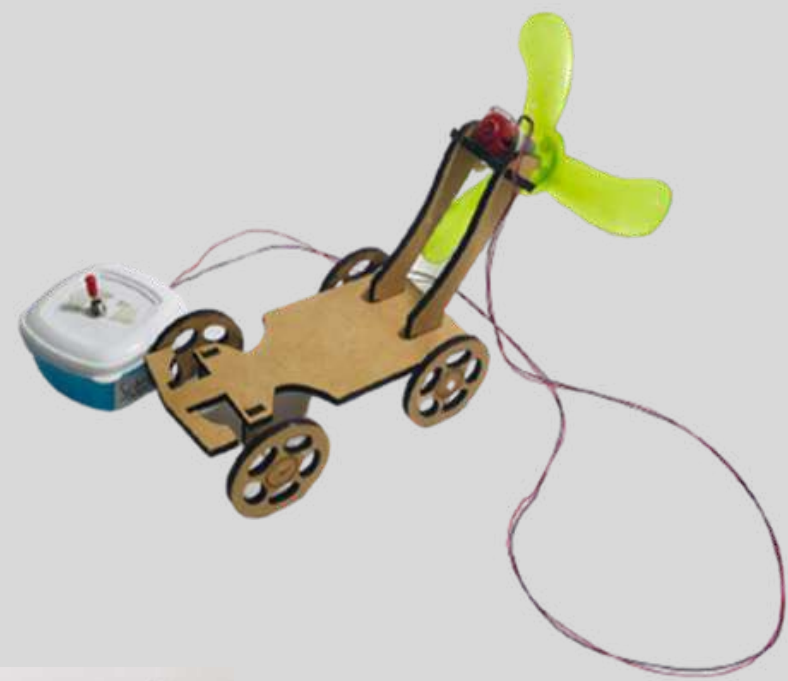
- 9 Concept Classes
- 9 Project Classes

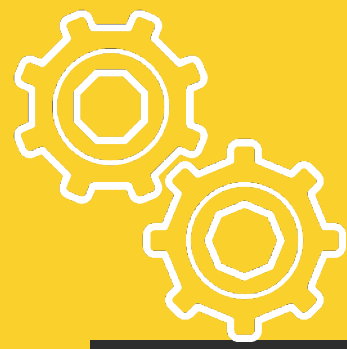
LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts

GRADE 4 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 5 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

TIME

FUN WITH MAPS AND INTERNATIONAL TIME DIAL

LIGHT

LIGHT POWERED PERISCOPE

SCIENCE OF EYES

BOW THAUMATROPE

LIGHT AND SHADOWS

DESIGN A TORCH LIGHT

AIR IN ACTION

DESIGN AN EXHAUST FAN

LEVERS

SEIGE CATAPAUT

GEARS

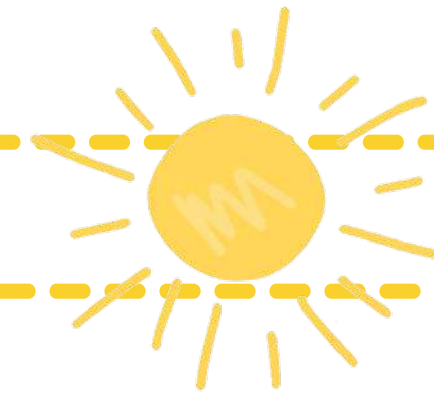
GEAR ACROBAT

FRAME OF REFERENCE

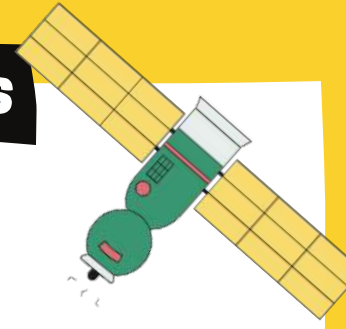
AMES ROOM

CIRCUITS

ELECTRICAL QUIZ BOARD



Inclusions



- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

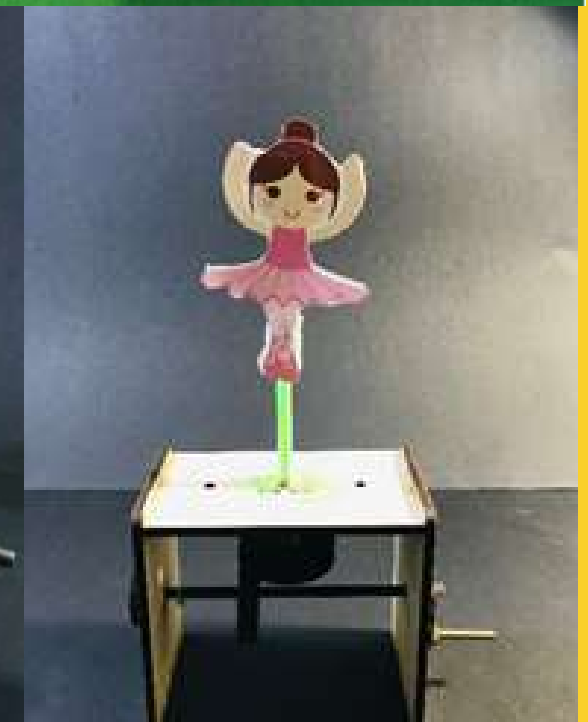
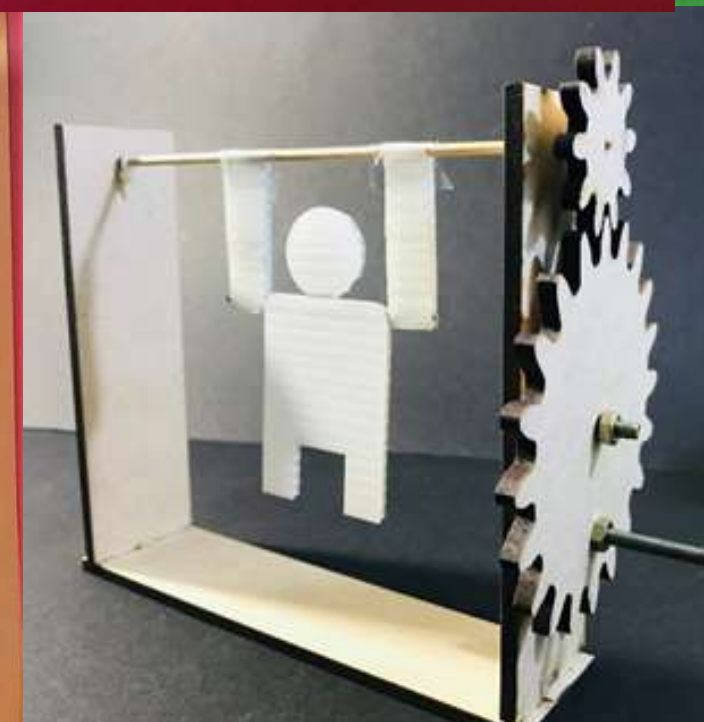
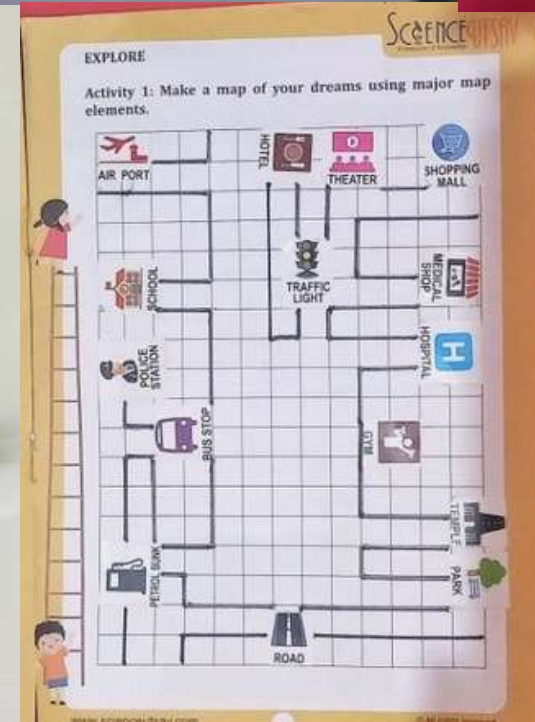
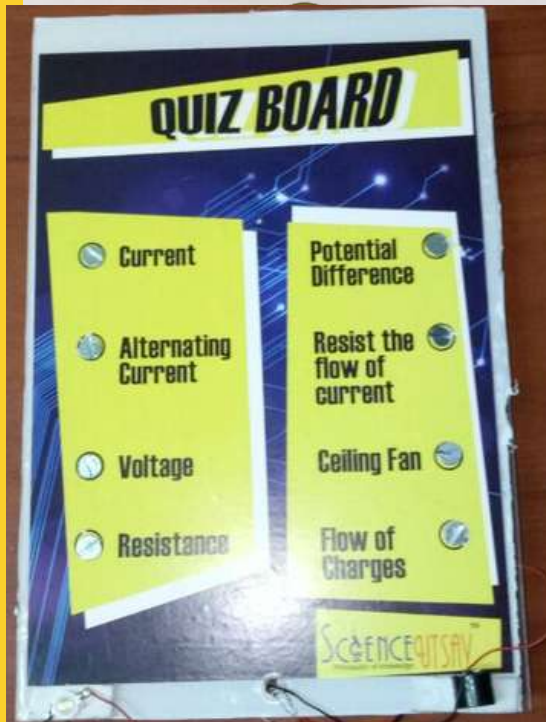
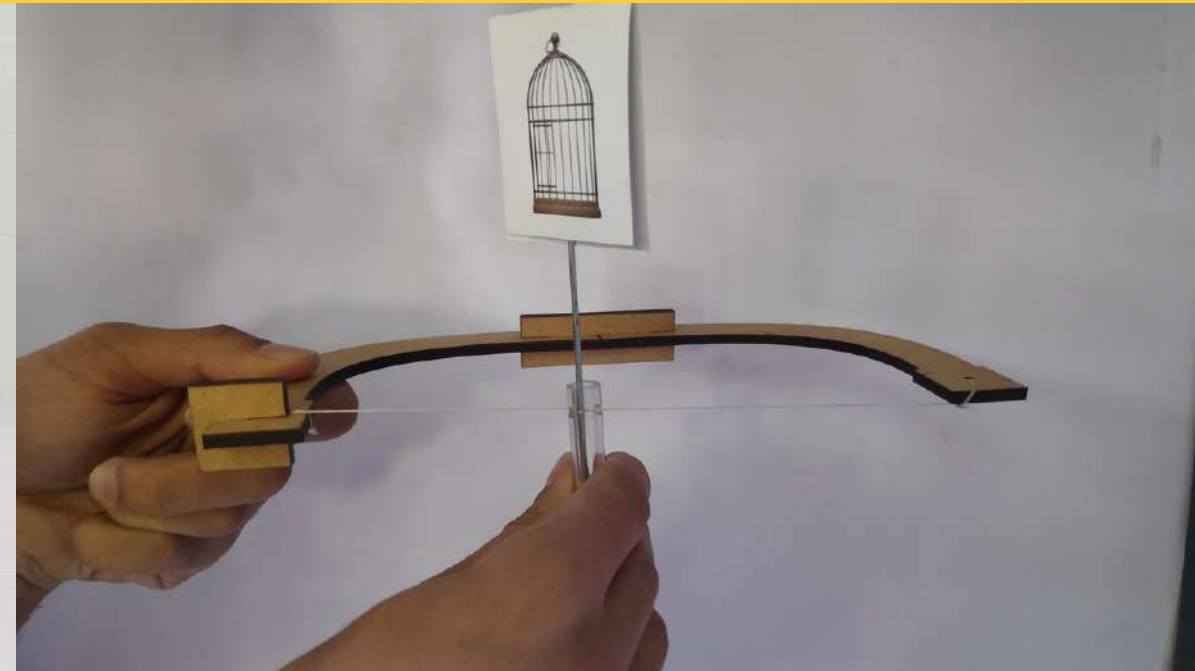
- 9 Concept Classes
- 9 Project Classes

LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts

GRADE 5 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 6 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

MAGNETISM

BUILD A GAUSS GUN AND PLAY

APPLICATION OF CIRCUITS

DESIGN A TRIP ALARM

ELECTRICITY

TABLE LAMP

LIGHT AND SHADOW

MAGIC SHADOW

TYPES OF MOTION

AWESOME AUTOMATA

LIGHT

MOTORISED THAUMATROPE | NEWTONS WHEEL

BE AN ORTHOPEDIST

DESIGN A FAKE X RAY

ENERGY CONVERSION

DESIGN A CATAMARAN

MEASUREMENT

SPIROGRAGH | 2D-3D SHAPES



Inclusions

- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 9 Concept Classes
- 9 Project Classes

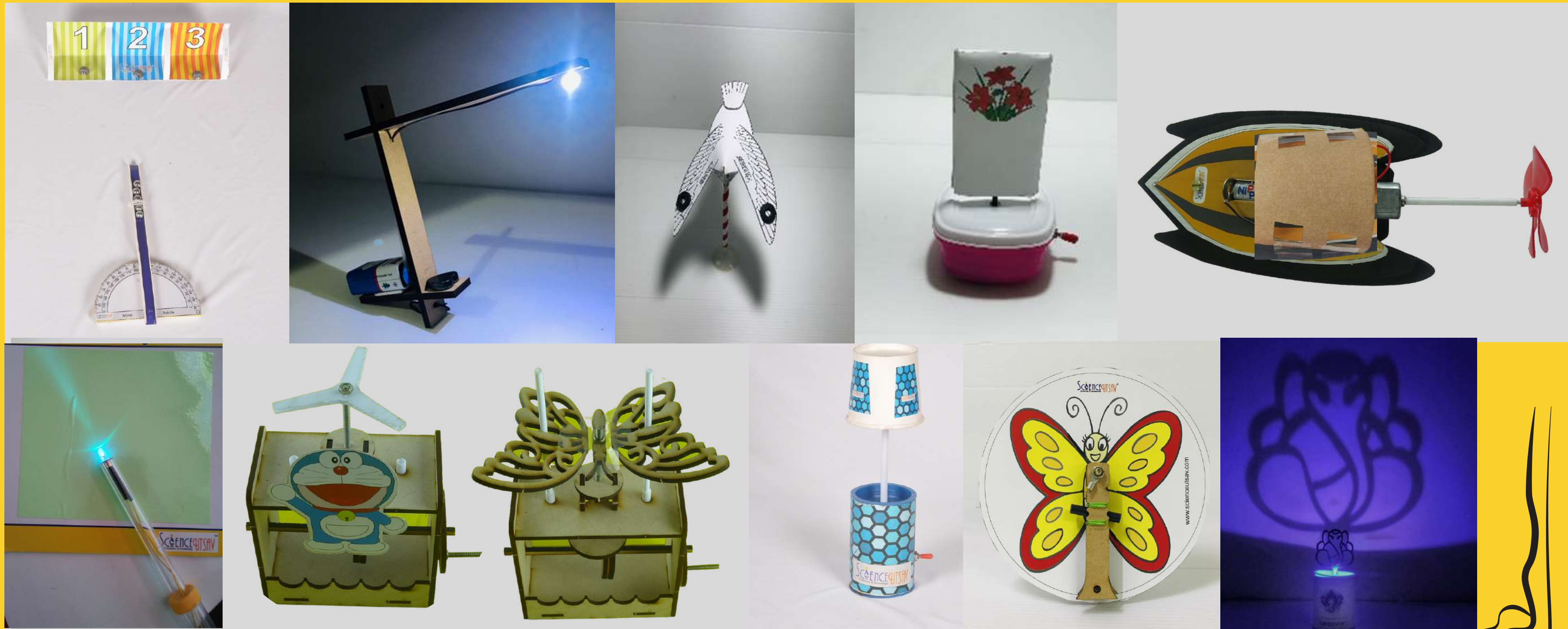
LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts



GRADE 6 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 7 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

SUN AND ECLIPTIC

DESIGN HORIZONTAL AND EQUATORIAL SUN DIAL

REFLECTION

MAGIC BANK

REFRACTION

LENS CAMERA | CAMERA OBSCURA

ELECTRIC CIRCUIT

DECORTIVE CHANDELIER

ELECTRO-MAGNETISM

ELECTROMAGNETIC TOY

LIMIT SWITCH

PULL TO BELL

WIND ENERGY

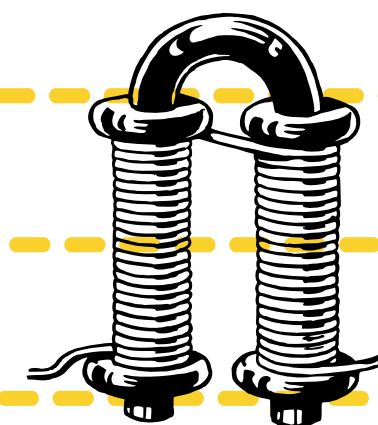
360 DEGREE FAN

PRESSURE

SANITISER PUMP

CRITICAL THINKING

TREASURE BOX



Inclusions



- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

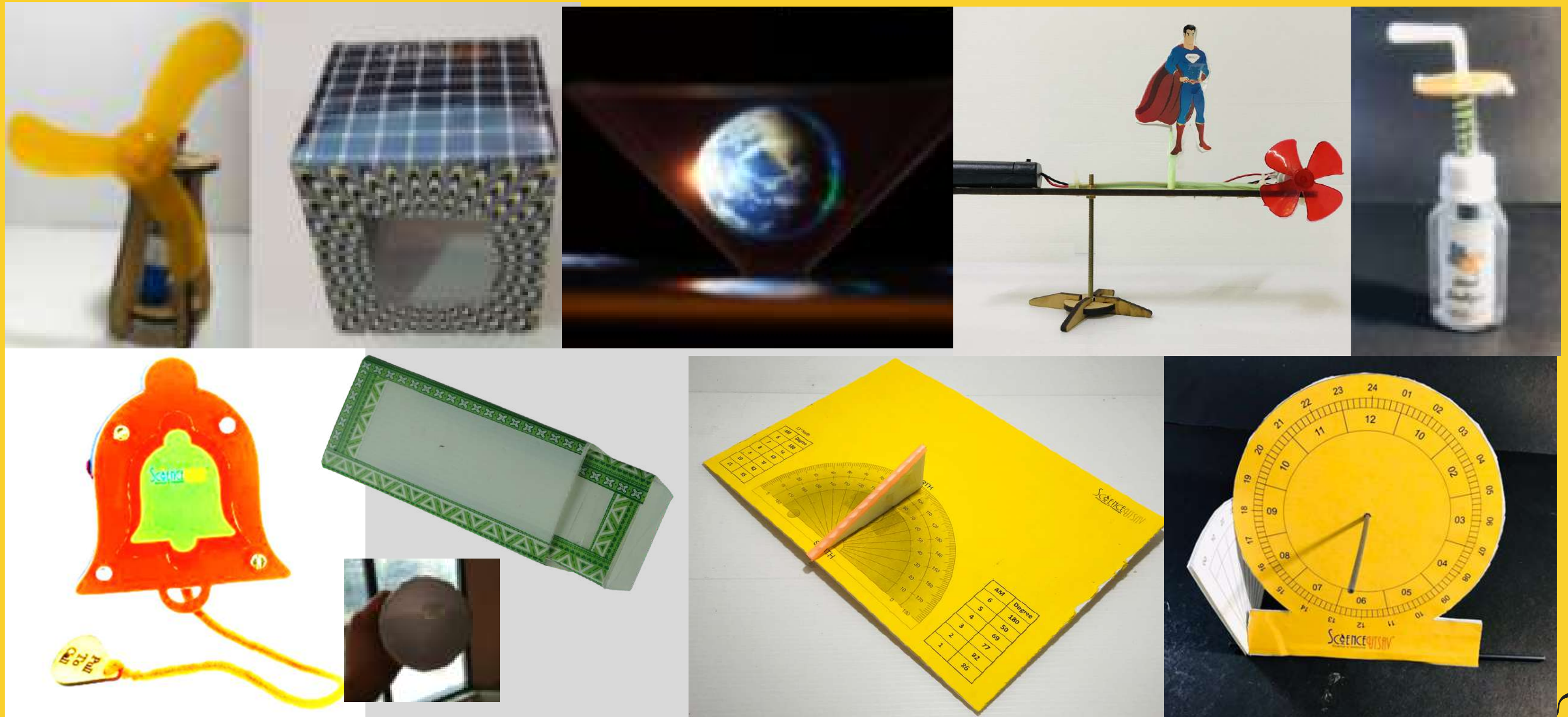
- 9 Concept Classes
- 9 Project Classes

LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts

GRADE 7 CURRICULUM

SAMPLE LIST OF MAJOR ACTVITIES





GRADE 8 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

POTENTIOMETER

DESIGN LDR SENSOR BED LAMP

SOLAR ENERGY

SOLOR POWERED BUG

SOUND

SHEHNAI | SHEHNAI

SOUND AMPLIFICATION

AIR HORN WHISTLE | GHOST BALLOON

FORCE AND FRICTION

BUZZING SCORPION

PERSISTENCE OF VISION

ZOETROPE

COLORS AND SHADOWS

COLOR SHADOWS

STAR GAZING

PLANISPHERE

GRAPHING THE STARS

STAR COORDINATES



Inclusions

- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 9 Concept Classes
- 9 Project Classes

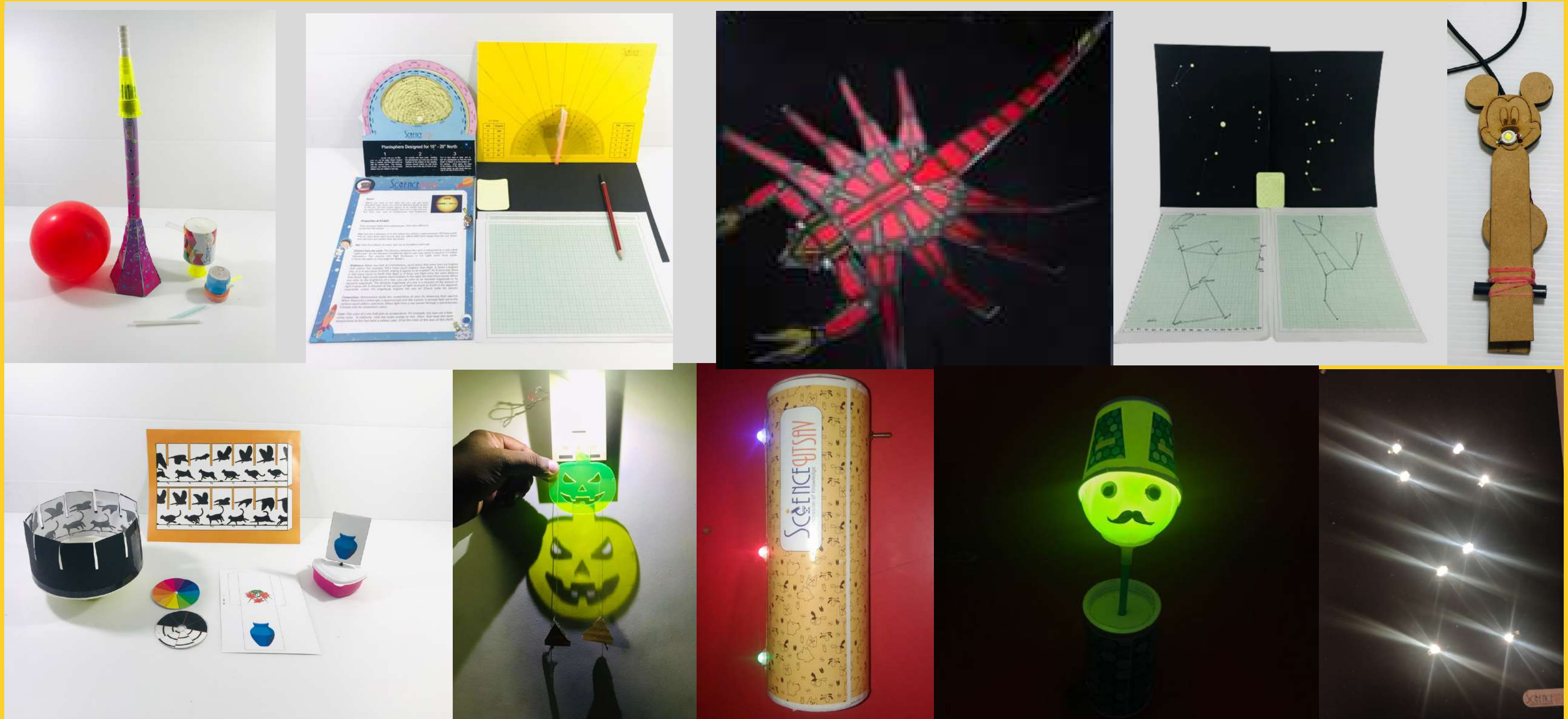
LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts



GRADE 8 CURRICULUM

SAMPLE LIST OF MAJOR ACTIVITIES





GRADE 9 CURRICULUM

CHAPTERS COVERED

MAJOR ACTIVITY

FORCE AND MOTION

NEWTON'S BOAT

MECHANICAL ENERGY

FRICTIONLESS CAR

GRAVITY

GRAVITY LANTERN

VIRTUAL REALITY

VR CONSOLE

CRITICAL THINKING

TREASURE BOX

MULTIPLE REFLECTION

INFINITE TUNNEL

MOTION

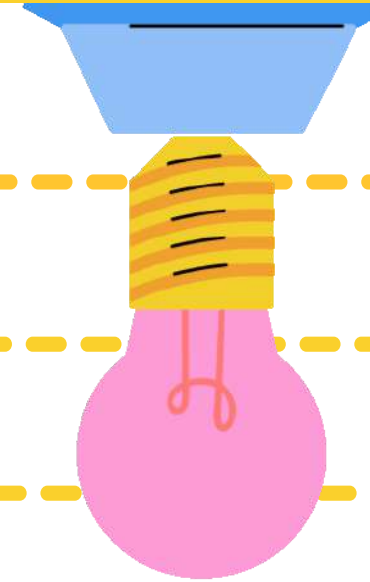
DESIGNING A GEOSYNCHRONOUS SATELLITE

SENSORS

LDR CIRCUIT

ASTRONOMY

CONSTELLATION BOX



Inclusions

- All Practical Classes
- 18 Classes | 2 Per Month | 9 Months

LIVE

- 9 Concept Classes
- 9 Project Classes

LMS Driven

- Revision Classes
- Assessment
- Quizzes
- Class Summary
- Concepts



GRADE 9 CURRICULUM

SAMPLE LIST OF MAJOR ACTVITIES

