

2016-17 SHOBANA DEVI. A 1172
1200

2001-02 V.VARALAKSHMI 1200
2002-03 S.SUDHA 1115
1200
2003-04 K.JANAKI 1011
1200
2004-05 LAKSHMI MADHURAM 1086
1200
2005-06 V.CHINMAYA 1085
1200
2006-07 M.B.JAI 1083
1200
2007-08 V.SUJITHA 1077
1200
2008-09 SRIKA 1084
1200

2001-02 S.ASWINI 1155
1200
2002-03 V.LAKSHMI 1171
1200
2003-04 I.B.N.RUKHSANA 1158
1200
2004-05 SUTHI PRIYA 1163
1200
2005-06 LAKSHMI 1165
1200
2006-07 CHINAMURTHY 1165
1200
2007-08 PRIYA 1157
1200
2008-09 LEN 1161
1200



EXIT



2009-10 R.JUDE	170	984
2010-11 A.PREMANJUMAR	180	1200
2011-12 K.PRIYADARSHINI	164	
2012-13 V.YEGNARANAM	174	1200
2013-14 SRUTHI.R	177	1200
2014-15 SHANTHVEL.I.K	180	1200
2015-16 AKSHAYA.J	169	1200
2016-17 SKOBIA DEVI.A	172	1200
2001-02 W.M.NAMBIRAJAN	982	
2002-03 S.SUDHA	115	1200
2003-04 K.JANAKI	101	1200
2014-15 LAKSHMI HARIKRAN	1036	
2015-16 MITHRI B	1084	1200
2005-06 S.	1048	
2006-07	1077	1200
2007-08	1165	1200
2008-09	1157	1200
1996-97 V.JUNIOR	1161	1200
1997-98 M.SARALA	1079	1200
1998-99 V.PRIYADARSHINI	985	
1999-2000 J.LUCIA JASLIN RAJ	1150	1200
2000-01 V.SRIKANTH	1165	
2001-02 S.ASWINI	1171	1200
2002-03 V.LAKSHMI	1158	
2003-04 I.B.N.RUKHSANA	1163	1200
2004-05 S.SAKTHI PRIYA	1165	
2005-06 S.	1165	1200
2006-07	1165	1200
2007-08	1161	1200







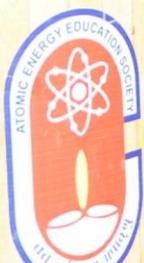
SEA HAS THE POWER TO PURCHASE WEALTH,
HIGH LIBERTY TO PURCHASE FREEDOM,
THE GREATEST OF WARRIORS IS ONE
WHO CONQUERS THE SELF.

LIBRARY
CLASS XI

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KALPAKKAM-603102

**SCIENCE, SOCIAL SCI., MATHS &
TEACHING AIDS EXHIBITION-2018.**





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CENTRAL SCHOOL

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EXHIBITION-2010

7. 2.



ATOMIC ENERGY
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LITERATURE AIDS EXHIBITION 2013
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TEACHING AIDS EXHIBITION-2018
07.07.2018



ATOMIC ENERGY CEN
SCHOOL-2 & HR.

Science
Soc











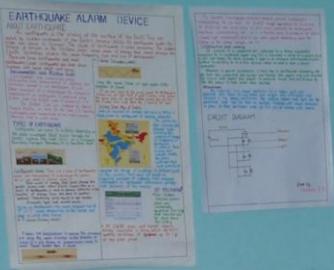


Project No. (Category)	Pilot		Viz. Pilot (Engineering)	
	1	2	3	4
1 A	○	-	○	-
2 B	○	-	○	-
3 C	○	-	○	-
4 D	○	-	○	-
5 E	○	-	○	-
6 F	○	-	○	-
7 G	○	-	○	-
8 H	○	-	○	-
9 I	○	-	○	-
10 J	○	-	○	-

SCIENCE FAIR
MULTI LEVEL
CANDIDATE

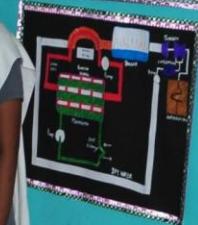
NO ENTRY





A young girl with dark hair styled in two braids stands behind a table, wearing a grey dress over a white sash. A name tag with the number '44' is pinned to her sash. She is smiling at the camera.

Another young girl, wearing a grey dress over a white sash, stands behind the first girl, facing away from the camera.

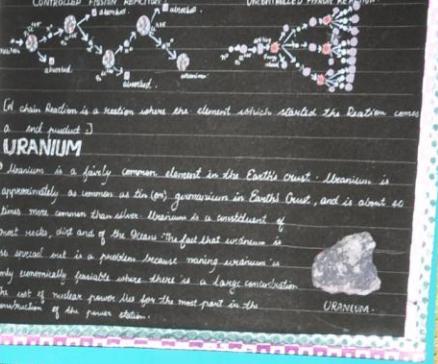


light elements like form a heavier element and releases uncontrollable Energy. Thermonuclear Reaction cannot be used for producing electricity. Some Energy is released by Fusion Reactions. The heat and light that we get from Sun is all due to the Thermonuclear Reactions going inside it. We can even imagine how much Energy would produce during a fusion Reaction.

Fission: Nuclear fission Reaction, the nucleus of a heavy radioactive element like uranium or plutonium splits up into smaller nucleus when bombarded with a slow moving neutron. The nucleus contains protons and neutrons. At Nucleus there is a strong nuclear force of attraction between the protons & neutrons. Between the nucleons there is a weak force of attraction.

- Between the protons there is a strong nuclear force of attraction proportional to the mass of the nucleus. When a nucleus does nuclear fission due to external factors.

- Between the nucleons due to the weak force of attraction.



[A chain Reaction is a reaction where one element which started the reaction comes as a end product]

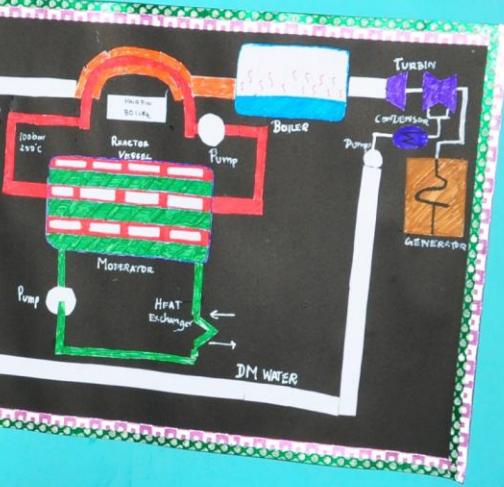
URANIUM

Uranium is a fairly common element in the Earth's crust. Uranium is approximately as common as tin (tin) is common in Earth's crust, and is about 60 times more common than silver. Uranium is a constituent of most rocks, just one of the elements. The fact that uranium is so special and is a problem because mining uranium is only economically feasible where there is a large concentration.

The cost of nuclear power lies for the most part in the construction of the power station.



After the nucleus is hit by a neutron, the neutron is made to hit the nuclei of Heavy water. The neutrons slow while hitting the water molecules but is given therefore the neutrons retain its energy. To avoid this a Heat Exchanger is connected to cool the system. After the Fusion Reaction Energy is produced. The heat is transferred to the pipes (made of steel) containing demineralised water. Due to this heat the water becomes steam. This Bigely energetic steam is made to rotate the turbine. As the turbine rotates the generator starts working and pure reaction 235U is produced. Thus the dry steam is condensed by sea water. The water again sent to Boiler and Condensed. Here is the Process.



62



environment of India. This project exhibit technologies which helps to keep our house clean and tidy.

Project Description

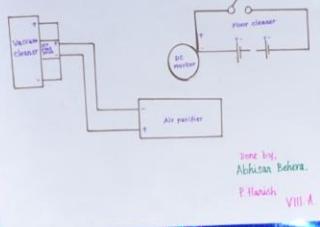
Digital Floor cleaner:

It has a floor cleaning sweeper connected to a water tank through pipe with tap to control water flow. The cleaner is controlled by remote.

Significance:

Conserve water and electricity.

Diagram:



Done by:
Abhishek Behara
P. Hanish
VIII-A

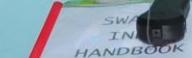
S = Solution
C = Creation
I = Innovation
E = Environment
N = Nature
C = Carbon dioxide
E = Element

CENTRAL SCHOOL - 2 ALPAKKAM

EXHIBITION

2018-2019

ALL THE



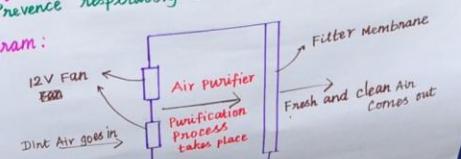
Air purifier:

It has two powerful 12V fans to pull the dirt. A filter membrane is provided to completely traps dust particles.

Significance:

Prevece respiratory diseases and eco friendly.

Diagram:



Vacuum cleaner:

It has two 12V fans with adjustable length pipe for mobility. It will be clean.



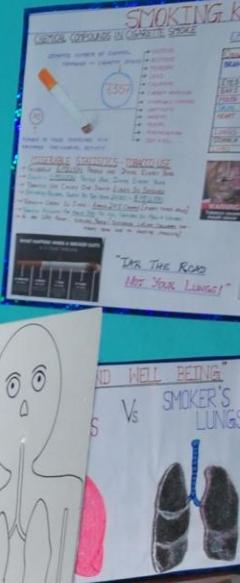
12

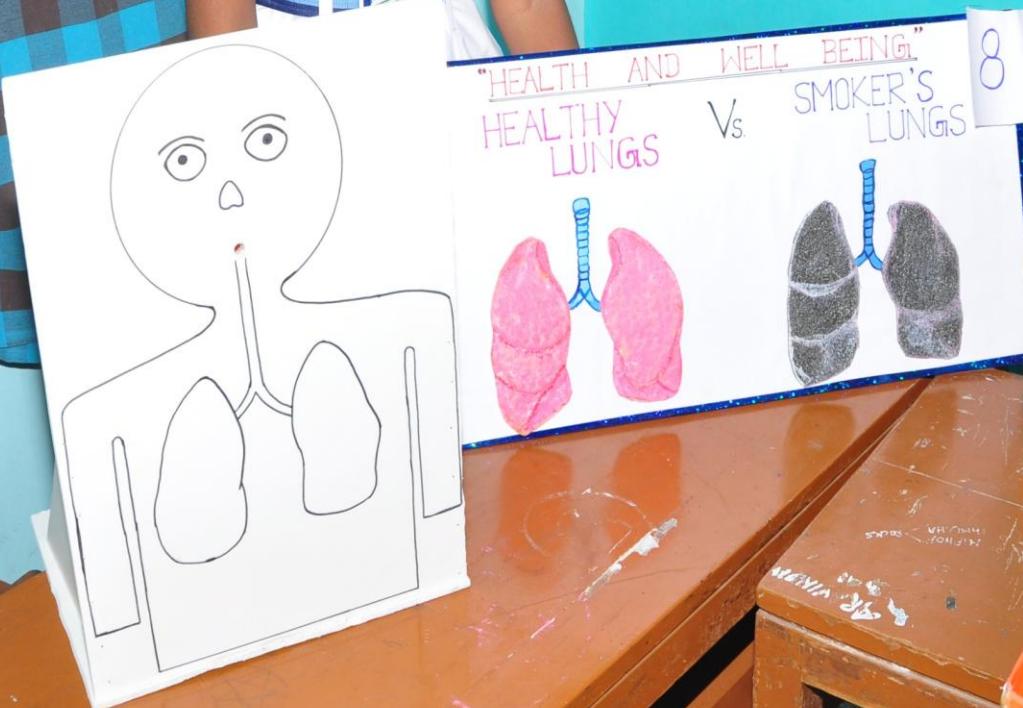
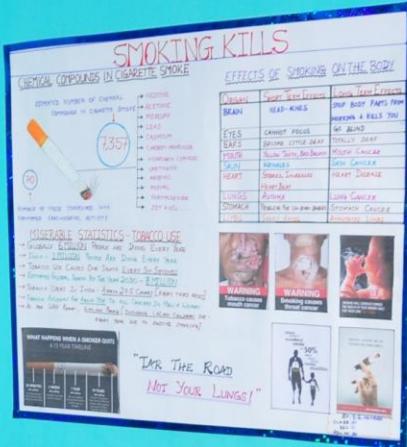
• READY TO RELEASE
• CHARTERS TO RELEASE
• 1ST SANTO ASHOK FOR SPOT AWARDS
• 2ND SANTO ASHOK FOR SPOT AWARDS
• 3RD SANTO ASHOK FOR SPOT AWARDS
• 4TH SANTO ASHOK FOR SPOT AWARDS



INNOVATIVE
SAFETY SYSTEM
IN
TWO - WHEELER

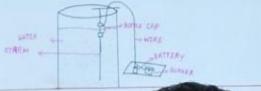






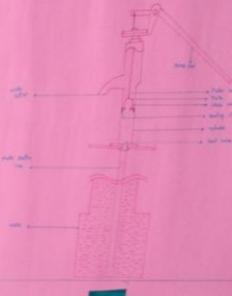
liquid level indicator for water tanks at home or any place where it is required to measure liquid level. This Project describes three different types of water level indicator and also gives details on how to implement it.

We know that nowadays instrumentation play vital role. Process industries often requires liquid level indication for controlling different parameters. One can take example of domestic water tank in which we need to know the level of water so that we can determine the time at which we should start water pump and so on.

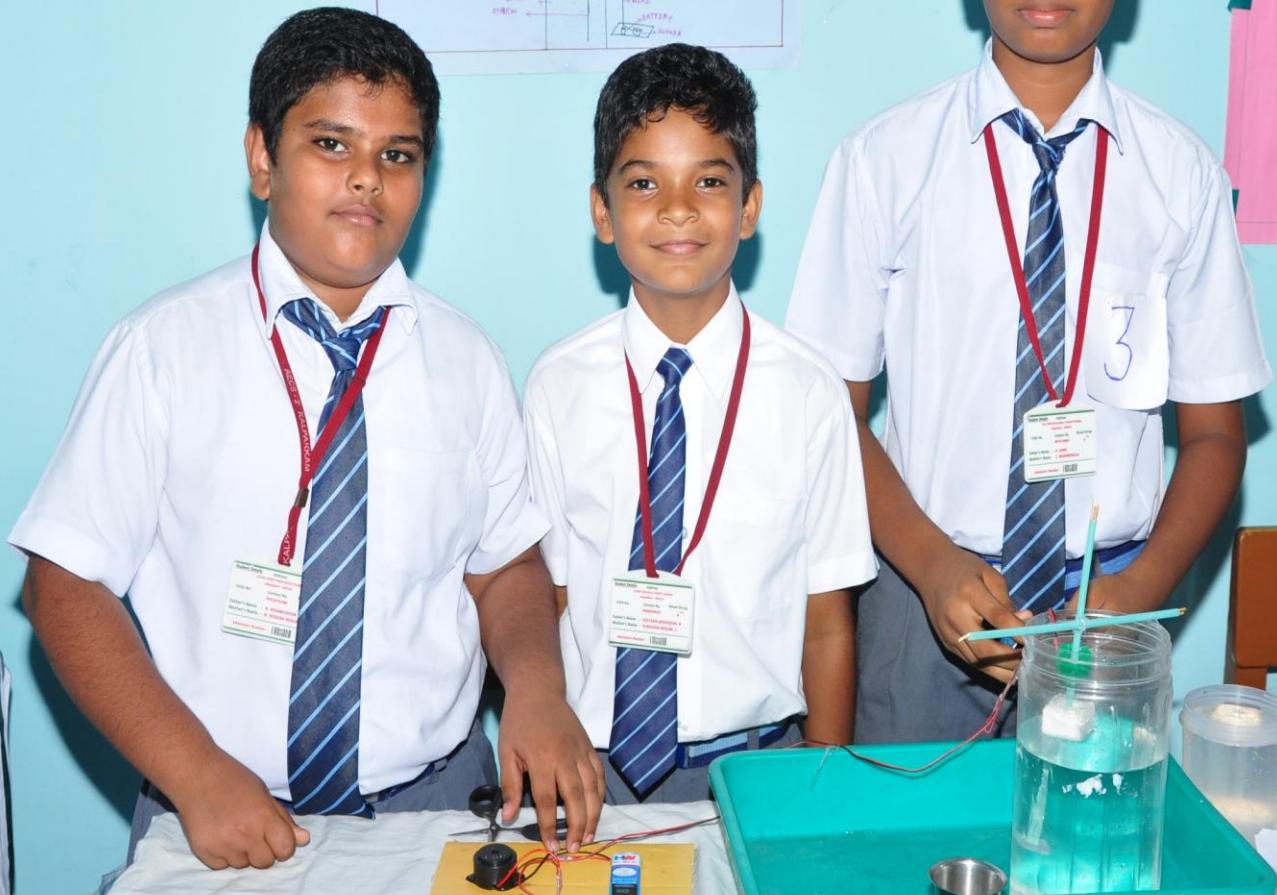


WATER HAND PUMP

This is a simple hand pump. On the top edge of the piston the various components like valve plates and piston rings slide with its joint head on the cylinder base shown at the plate. The valve on the piston opens up and allows water to flow under the piston to the cylinder at bottom. At the piston center is placed bolt of the piston.



Done by
J. Dinesh Kumar
X-A
2022-23







AUTOMATIC ADDING MACHINE

A DEVICE EXPLAINING BASIC ADDITION
USING MARBLES, CARDBOARDS & STICKS.
HERE SPECIFIC NUMBER OF MARBLES ARE
PLACED INSIDE THE BOX. WHEN TWO
NUMBERS [Eg:- 3 AND 5] ARE PULLED, WITH
THE HELP OF STICKS, THEY AUTOMATICALLY
GET ADDED. THEN THEY GET COLLECTED IN THE
BOX BELOW. [SUM IS 8]
BY THIS METHOD MATHS BECOMES
INTERESTING FOR KIDS.



10







Mathematics In Nature
Tafeef Fatima, X B

FACES

Snowflakes

Sun-Moon Symmetry

Milky Way Galaxy

Orb Web Spiders

Peacock

Sunflowers

Pinecones

Starfish

Tree Branches

Uteruses

Cross Circles

Honeycombs

Nautilus Shell

Romanesco Broccoli

This poster illustrates various natural phenomena that exhibit mathematical patterns and structures. It includes sections on faces, snowflakes, sun-moon symmetry, the Milky Way galaxy, orb web spiders, peacock feathers, sunflowers, pinecones, starfish, tree branches, uteruses, cross circles, honeycombs, nautilus shells, and Romanesco broccoli. Each section contains a photograph and a brief description of the mathematical concept observed in nature.



Earthquake

An earthquake is the shaking of the surface of Earth resulting from the sudden release of energy at the Earth's lithosphere that creates waves whose amplitude can range in size from those that cannot be detected by instruments to those that cause great damage.

Earthquake Hazards

During an earthquake, if you are indoors, do not panic. If it is a long-lasting one, take shelter under a desk or table or hold onto a doorway. If it is a short one, get outside if possible. If you are outdoors, move away from buildings, trees, utility poles and power lines.

Tsunami

A tsunami is a series of waves and/or steep, narrow bands of water moving across the ocean floor during an underwater disturbance. During an earthquake, the sea waves and/or steep bands of water may travel as far as 100 miles inland.

Earthquake

Earthquake damage is often very severe, especially if it occurs in populated areas. It can cause extensive damage to buildings, roads, bridges, and other infrastructure.

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08
Earthquake
Management

DISASTER
MANAGEMENT

ED

APRIL

2013

BY

MANOJ

VIII - A

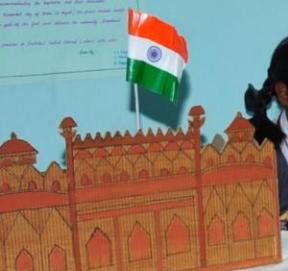
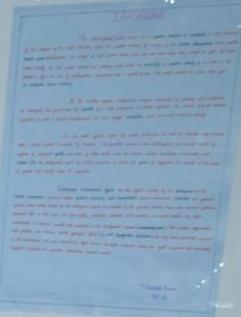
FIRE
Management



D FORT



INDUS VALLEY CIVILIZATION



Indus Valley Civilization
The Indus Valley Civilization was one of the earliest urban centers in South Asia, dating back to around 3300 BC. It was located in the northwestern part of the Indian subcontinent, covering parts of modern-day Pakistan and India. The civilization is known for its well-planned cities, advanced infrastructure, and sophisticated social organization. Key features include the city of Mohenjo-daro, which had a grid layout, a central citadel, and a large granary. The Indus script, though not fully deciphered, has been found on seals, tablets, and other artifacts. The people of the Indus Valley were skilled in agriculture, trade, and handicrafts like pottery and jewelry. They also had a发达的数学和天文知识, used a base-12 number system, and had a calendar based on the solar year.

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10





THE GREATEST OF WARRIORS IS HE
WHO CONQUERS THE SELF

THAN THE SWEEPEST LIE
THE CONFESSION OF IGNORANCE
IS THE BEGINNING OF WISDOM.



Resource consumption, human error and overall cost.

IMPROVED LIVESTOCK FARMING:-

Sensors and machines can be used to detect health events earlier in animals. Geofencing location tracking can also improve livestock monitoring and management.

REAL TIME DATA AND PRODUCTION INSIGHT

FARMERS CAN VISUALIZE PRODUCTION LEVELS, SOIL MOISTURE, SUNLIGHT INTENSITY AND MORE IN REAL TIME AND REMOTELY TO ACCURATELY DECISION MAKING PROCESS.

SMART FARMING

Solar panels are wonderful things. Did you know up to 30% of the world's population lives in countries like China and India where lots of land lead to hungry people. Farming areas there are being built to take advantage of the arid land of India and more.

The Indian state of Bihar announced that over 100,000 acres of land have been converted into irrigated land since 2014. The government has invested heavily in the building of the state's irrigation system. The solar panels are mounted high enough so after the crops have been harvested, the water can be used to irrigate the fields again. It saves money on electricity bills and reduces the need for irrigation equipment.

SMART FARMING

Smart farming is a capital intensive and hi-tech system of growing food clearly and sustainable for the market. It is the application of modern ICT (Information and Communication Technologies) into agriculture.

In IoT-based smart farming, a system is built for monitoring the crop field with help of sensors (light, humidity, temperature, moisture, etc.) and automating the irrigation system. The farmers can monitor the field conditions from anywhere.

The application of IoT-based smart farming not only targets conventional large farming operations but could also be very useful in small farms, organic farming, running complex or small spaces, particular cases and cultures, preservation of particular high-quality varieties etc.) and enhance highly transparent farming.

In terms of environmental issues, IoT-based smart farming can provide great benefits including more efficient water usage, optimization of inputs and treatments. IoT-based smart farming is highly efficient when compared with the conventional approach.

SMART AGRICULTURE

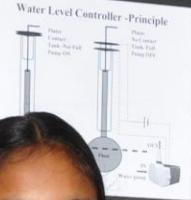
INCREASED Productivity
Optimized crop treatment sustains a good harvest.

WATER CONSERVATION:-

Weather predictions and soil moisture sensors allow for water use only when and where needed.

LOWED OPERATION COSTS

WATER LEVEL CONTROL



PRINCIPLE:

Water level controller consists of a float valve. When the water level reaches a certain height, the float valve opens, activating a mechanical switch activated by a float tube. This switch is attached to a float tube. When the water level falls, the float tube falls, causing the switch to close. This switch is connected to a pump. When the switch is closed, the pump is on and water starts flowing. As the water level rises, it floats upwards and pushes up the plate. The plate is in contact with the switch, so the switch is closed again, turning off the pump.

FOR DRIP IRRIGATION

Drip Irrigation Schematic



BENEFITS OF DRIP IRRIGATION:

- Increase in yield upto 130%
- Saves water upto 70% compared to flood irrigation. More land can be irrigated with the water thus saved.
- Crop growth consistently, healthier and matures faster.
- Early maturity results in higher net income.
- Fertilizer use efficiency increases.
- Cost of fertilizers, inter-cultivation and labour is reduced.
- Fertilizer and chemical treatment can be applied directly to the root zone.
- Undulating terrains, saline water and water-borne salts can be brought under productive cultivation.

WATER LEVEL CONTROLLER

WELCOME TO SOCIAL SCIENCE EXHIBITION
2018-19

19

MAXIMIZES WATER:

Additionally, water usage can be maximized with water level controller. Often, water pumps get more use during the middle of the day. A water level controller is helpful because it turns on the pump only when the water level falls below a certain point, and turns off the pump when the water level rises to its appropriate level.

- * House will be connected by photo R. Boxes, which gives green air.
- * Two types of Energy exist:
 - Solar energy - Sunlight can extract by the wind, where wind energy all be converted like HYDRO.
 - Electric energy - after power extract the solar energy from sun and converted into Electricity.
- In summer we get more solar energy
- * Rain water harvesting - In rainy season water can be stored and the same can be used for the future.
- * Bio-gas - waste from plants, Kitchen and cow dung be reduced and transformed to give Bio-gas.
The same reduced biomass doesn't pollute So, it is Eco-friendly house.

FLOATING BUSINESS

FLOATING BUSINESS

• Fill the bottle with water
• Close up the bottle with a cork and close the lid
• A cork will float the bottle "FLOTATION IN THE SURFACE"
• WHAT PUT THE BOTTLE AND IT WOULD SINK
• BOTTLES IN THE WATER
• FLOTATION IN THE SURFACE
• THE NUMBER OF THE BOTTLES
• HOW MANY BOTTLES ARE PLACED IN A LINE UP TO FORM AIR BUBLES
• FORMATION OF AIR BUBLES
• THE NUMBER OF THE BOTTLES WHICH IS AT THE BOTTOM
• A FORM COUNTRY FROM BOTTLES
• AND THAT ALONE WITH FORM AIR BUBLES
• If someone like this article
• This article has a place.



If weight of an object is greater than weight of liquid it displaces, then object floats.



Volume of air = Mass / Density, Volume of air = Displacement
 Weight of water = Displacement x 1g/cm³

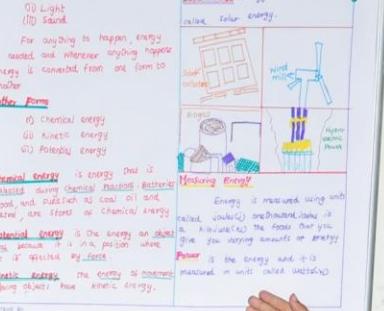
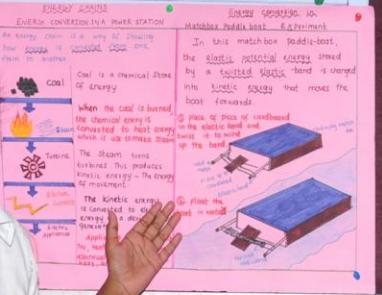
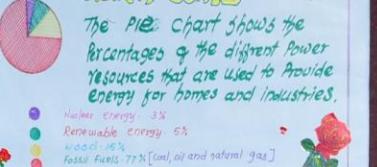
Buoy	WEIGHT
1	$\rightarrow 109\text{ g}$ < than 1kg \rightarrow FLOATS
2	$\rightarrow 859\text{ g}$ < than 1kg \rightarrow FLOATS
3	$\rightarrow 1257\text{ g}$ < than 1kg \rightarrow FLOATS
4	$\rightarrow 1711\text{ g}$ greater than 1kg \rightarrow SINKS

V.S. Properties of Matter in Air: ABCD-1, P, F, N, H, B, A, E, F, G, C





Kalam



Student 1 (left):

- Name: Nandita
- Class: 1
- Section: A
- Roll No.: 17

Student 2 (right):

- Name: Nandita
- Class: 1
- Section: A
- Roll No.: 18



LTHAMINI
III D
AFR P

IMPORTANCE OF NUCLEAR ENERGY

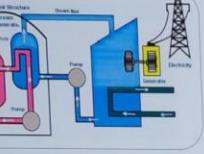
The greatest advantage of the peaceful uses of atomic energy is that it replaces the conventional sources of energy like coal, petroleum, natural gas etc. which are non-renewable and are depleting rapidly. Nuclear energy has tremendous uses in the field of agriculture, health care, to protect agriculturists from the toxic insects, which are harmful for the crops. Nuclear energy can also be used for the production of fertilizers which the farmers find very redundant.

Nuclear energy can be used for the generation of electricity, which are being used to meet the needs of the population.

Nuclear energy can be used for the peaceful uses of medicine, radiotherapy, sterilization of medical instruments, preservation of different food products.

Nuclear energy can be used for the generation of power and energy flowing from the plate, and can convert it into a specific life for producing gases are also produced.

SCHEMATIC OF NUCLEAR POWER PLANT



NUCLEAR POWER PLANTS IN INDIA

Power station	Type	Units	Total Capacity (MW)
Kudankulam - I	PWR	2 x 440	880
Kudankulam - II	PWR	2 x 440	880
Kudankulam - III	PWR	2 x 440	880
Rewariha (HBL)	PWR	3 x 440	1320
Tarapur - I (MH)	BWR	2 x 300	600
Tarapur - II (MH)	BWR	2 x 300	600
Narora (HP)	PWR	2 x 440	880
Total		18	4560

Power station	Type	Units	Total Capacity (MW)
Guru Nanak Dev	WHS	1000 x 2	2000
Kudankulam	PWR	2 x 440	880
Kalpakkam	PWR	2 x 440	880

R. PRAVEEN KUMAR 3 D

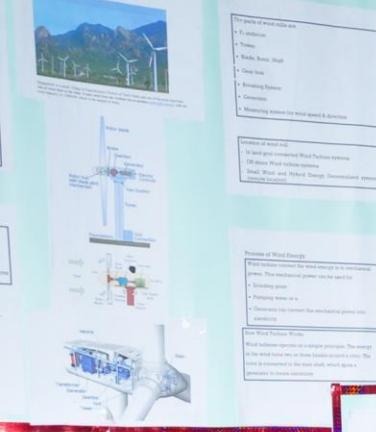


INTERNATIONAL SPACE STATION



INDIAN SPACE RESEARCH





Science Exhibition 2018-2019

Anyone who has never
made a mistake has
never tried anything.
- Albert Einstein

- Albert



WATER CYCLE



III C. Faraday disk was the first electric energy generator. the horseshoe shaped created a magnetic field through the disk. When the disk was turned, this induced an electric current radially outward from the center towards the rim. The current flows out through the sliding spring connecting through the external circuit, and back into the center of the disk.

* Three cardboards of same size each are taken.
* A hole is made at the center of each cardboard.
* With the help of stand, the three cardboards are made to fix in a position of straight line.
* A light source is kept on one side of cardboard.
* If light is observed on other side of the cardboard, the light is clearly visible. It reveals light travels in straight line.
* If anyone of the cardboards is adjusted, such that it is not in straight line, then the light is not visible. The light is blocked by one of the cardboards.

Mr. Sandeepra, SJMHS
IV Std B Sec



