



# VDS TIMES

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SWA. SHRI V.L BAROT EDUCATIONAL TRUST

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**Science Fair Edition - September 2023**

## Science Fair 2023-24 organized at Vishnu Dharm School - Bhuj



Vishnu Dharm School has organised the Science fair which is inspired by G.C.E.R.T -Gandhinagar Maharani Shree Ganagaba Saheb, District Education and Institute of Training, District Education Office -Kachchh and Sandipani Shala Vikas sankul. A total of 67 different schools participated with great enthusiasm with their scientific models.

The opening ceremony was held by The chief guest Mr. Shankar Sachde (Advocate and notary district of Kachchh).



Mrs. Hetal Barot (Managing trustee), Mr. Himanshu Barot and Mr. Nitin Mehta (Advisory board members and Mentors of VDS), Mrs. Harsha Mehta, Mr. Anil Dwivedi and Mrs. Karuna Dwivedi (Trustees of VDS), Mr. Hemant Bera (Campus Director) Mr. B. M. Vaghela (E.I.) & Mansoori Sir (E.I.), Deepikaben Pandya (AEI)



DEO office, Mr. Ashwinbhai Suthar (Liaison Officer DIET), Mr. Tejas Pathak (Convener of SVS), Mrs. Ritoli Ganatra (President of Inner Wheel Club of Bhuj Flamingo), Mrs. Sonal Chatterjee (Principal), and Mrs. Nikhat Menon (Coordinator) were present and graced the event. Mr. Shankar Sachde conveyed best wishes to all the participating students. He also wished that India's future would be bright because of such young scientists. All the participants were awarded the certificates and also Instructor teachers of each school were felicitated with mementos by the Managing trustee of VDS.



In addition to this event a well-equipped high-tech Computer Lab inaugurated by the auspicious hand of Mr. Shankar Sachde and Mrs. Hetal Barot. Famous educationists Mr. Hiralal Soni, Mr. Sultan Morani, Mr. Kaushik Polara, Mrs. Shilpa Supeker, Mr. Ismail Soneji, Mr. Chiman Dedkiya, Mr. Anil Gor, Mrs. Shruti Zaradi, Mr. Pritesh Zaradi, and Mrs. Manjula Maheswari had played the role of Judges in this science fair. At the end of the event, Mr. Kaushik Polara sir delivered the heart-felt vote of thanks speech.

## Science Fair - Guests of Honors



**Mr. Shankar Sachde**

Advocate and Notary District of Kachchh  
President-Kachchh Rashtrabhasha Prachar Samiti  
Ex-President, Bhuj Municipality

Magnificent Personality, the one who has made a lasting contribution through his work. Mr. Shankarbhai Sachde is a person who fights on behalf of the poor people of the Kachchh. Politics or Social work, he is always there for poor people who need him. He can be called the messiah of advocacy in Kachchh. During his lifetime, many difficult cases have been solved by him.



**Mr. Sanjay Parmar**

District Education Officer, Bhuj-Kachchh

Mr. Sanjay Parmar is a very active, dedicated and committed to update and continue progress in the education world of Kachchh, His visionary leadership has steered all the schools for the challenges and inspired a culture of learning and excellence.

He coordinates Primary, Secondary and Higher Secondary all the three departments very well. He keeps the interest of teachers and children towards education.



**Mr. B. M. Vaghela**

E.I., DEO Office, Bhuj-Kachchh

An expression of gratitude for his presence, His significance as well as contribution in education is wild. He is heartily connected with teachers, children and schools. He is forever concerned about Schools and Students and how they develop themselves holistically.



**Mr. Mansoori Sir**

E.I., DEO Office, Bhuj-Kachchh

Mansoorie sir has seen dreams of education of Kachchh on the peak of the hill. To make it true he always works hard to guide each and everyone to become a strong educator.





**Mrs. Deepika Pandya**  
AEI, DEO Office, Bhuj-Kachhh

Deepika Pandya's passion for education is amazing and she always helps every school with her special guidance. She always solves education related queries very easily.



**Mr. Ashwin P Suthar**  
Liaison Officer DIET, Bhuj

Mr. Ashwin Suthar has done outstanding work of Liaison Officer. His dedication, professionalism, and tireless efforts have been instrumental in fostering effective communication and collaboration within all the education departments. They have not only facilitated seamless coordination between various schools but have also gone above and beyond to ensure that all the projects run smoothly.



**Mr. Tejas Pathak**  
SVS Convener, Bhuj-Kachhh

Mr. Tejas Pathak's remarkable efforts in bringing together the schools within our kachchh have been truly commendable. Their dedication to promoting collaboration and sharing of resources among the schools has significantly enriched our educational environment.





**Mrs. Ritli Ganatra**

President, IWC, Flamingo, Bhuj

Ms. Ritli Ganatra is known for wonderful administration and high achievements of the Rotary Inner Wheel club of Bhuj, Flamingo. She is the president of the Inner Wheel Club of Bhuj, Flamingo. She has molded the life of many people and served them with kindness.



**Mr. Katariya**

Science Teacher, US

“A good teacher isn't someone who gives the answers out to their kids but he understands the needs and challenges and gives tools to help other people in succeeding.”

Mr. Katariya is a Teacher who is teaching science in US. Guiding kids to know more about science and how interesting subject it is.



**Mrs. Hetal Barot**

Managing Trustee, VDS

“The best and the dedicated management of the school is only possible by good management.”

Mrs. Hetal H. Barot is Managing Director of Vishnu Dharm School. Her Dedication, Determination and Vision inspire all to work hard.



**Mr. Himanshu Barot**  
Advisory Board Member, VDS

“Leadership is not about being in CHARGE. It is about taking care of those who are in your CHARGE.”

Mr. Himanshu V. Barot is Trustee Member and Advisory Board Member of Vishnu Dharm School. He is having 26 years of experience in education field.



**Mr. Nitin Mehta**  
Advisory Board Member, VDS

“A person that holds an administers property or asset for the benefits of others.”

Mr. Nitin Mehta is Trustee member and Advisory Board member of Vishnu Dharm School. He is having 33 years of experience in education field.

Ambitious, Generous and thoughtful to their work. He is a person who can be trusted to make the right decision.



**Mr. Anil Dwivedi**  
Trustee Member, VDS

“Committed to his work with always positive Attitude”

Mr. Anil Dwivedi is Trustee Member of Vishnu Dharm School. He has warmth and you can feel like he will understand you well. The one who always has a positive outlook of life.





**Mr. Hemant Bera**  
Campus Director, VDS

I would like to convey my special thanks to DIET-Bhuj, DEO office-Bhuj and SVS convener for giving us the opportunity to organize science fair in our school. A total of 67 schools enthusiastically participated in this science fair. Advocate Mr. Shankarbai Sachde and officials of DEO office were especially present in the inauguration of Science Fair. The teachers and students of every school supported and cooperated in completing the science fair in an orderly manner. Vishnu Dharm School was happy to give certificates to every student, mementos to teachers

and gifts to every school. The Principal, the Coordinator and all the staff of the school worked very hard and made this science fair a successful event. Our school works for the overall development of children. Whenever we are getting a chance to organize such a beautiful events by the head offices, our school will execute it very well.

## Science Fair - Judges Panel



**Mr. Kaushik Polra**



**Mr. Chiman Dedkiya**



**Mr. Ismail Soneji**



**Mr. Anil Gor**



**Mr. Pritesh Jaradi**



**Mr. Hiralal Soni**



**Mr. Sultan Morani**



**Ms. Shilpa Suparkar**



**Mrs. Shruti Jaradi**



**Ms. Manjula Maheshwari**

*It was an honor to have you all on the panel. We know your time is precious and we are immensely grateful for having you. You were able to carve out some time with us. Thank you for helping in making this Science Fair 2023 a great success and we look forward to seeing you at future events too.*

# SCIENCE FAIR

## Section-1 Health (Models)



**School Name:**

**Sec. & Higher Sec. School**  
Managed by Shri Navchetan Andhjan Mandal

**Model Name:**

**Pathways to Good Health**

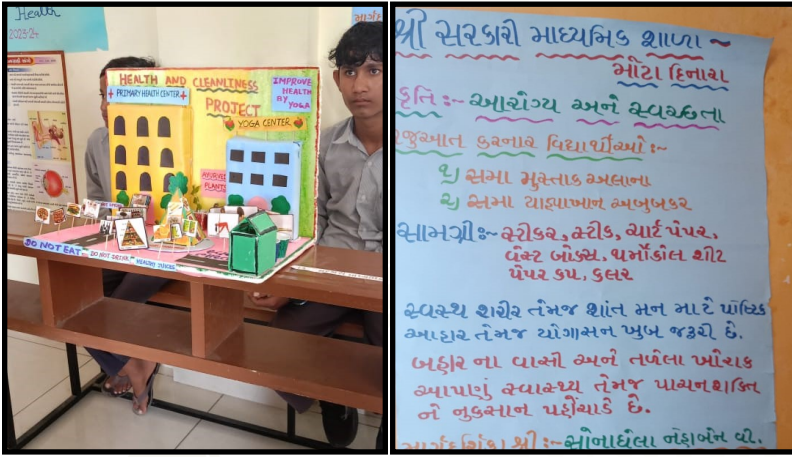
"The pathways to good health involves several steps. First, practicing yoga, pranayama, and exercise. Yoga, pranayama, and regular exercise can help keep our bodies disease-free. After that, the second pathway involves giving up junk food and increasing the consumption of nutritious, balanced meals to boost our immune system and keep our bodies disease-free. Additionally, using natural remedies such as lemon, tulsi (holy basil), and aloe vera can enhance our resistance to diseases.



**Mr. Kalpesh Patel**

The third pathway is staying away from addictions such as alcohol, cigarettes, and tobacco products. Avoiding addictions can help prevent lung and mouth cancer. The fourth pathway is maintaining cleanliness in our surroundings. Planting more trees can help us stay free from many diseases. Clean India, Green India, and Healthy India are the principles which should be followed to maintain good health. Following healthy habits is beneficial for our overall well-being."





**School Name:**  
 Government Secondary School, Dinara

**Model Name:**  
**Health and Cleanliness**

A healthy environment means a healthy human. It can reduce the risk of diseases. If we are environmentally aware than the risk of diseases can reduce. It promotes a healthy and quality life.

Environmental health problems can be solved only with the help of mass awareness, education and Nutritious diet. Yoga is also important for a healthy body and a calm mind.



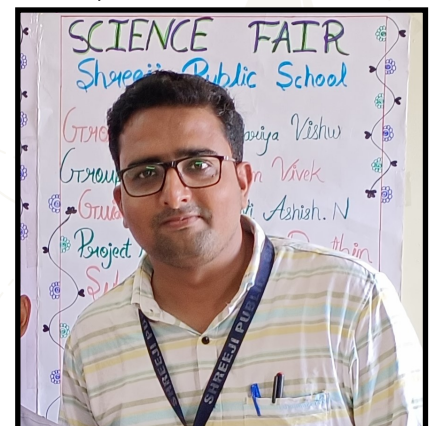
**Ms. Neha Sonaghela**



**School Name:**  
 Shreeji Public School

**Model Name:**  
**Smart Dustbin**

The smart dust bin, powered by Arduino, is equipped with sensors to identify objects in close proximity. A signal is then transmitted to a servo motor, which unhinges the lid. The motor is programmed to shut the lid after a certain duration.



**Mr. Ashish Aboti**



**School Name:**

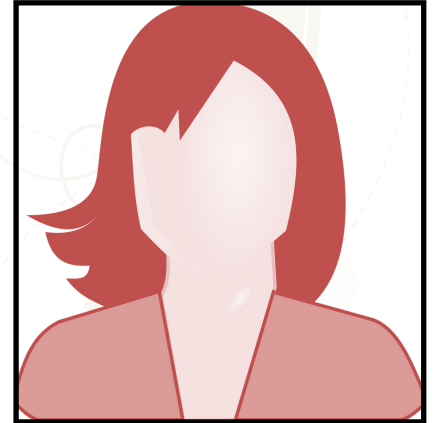
Patidar Kanya Vidhyalaya

**Model Name:**

Importance of millet for health

Millet is a good source of protein, fiber, key vitamins, and minerals. The potential health benefits of millet include protecting cardiovascular health, preventing the onset of diabetes, helping people achieve and maintain a healthy weight, and managing inflammation in the gut.

This project was about knowing the importance of millets and how millets reduce diseases.



**Ms. Neha Ahir**



**School Name:**

Government Secondary School, Mirzapur

**Model Name:**

Track and Crack Heart Attack

On World Heart Day, an attempt was made to create awareness among people about heart attack information and especially what can be done in first aid using plaster of Paris models, charts and pamphlets.



**Ms. Himanshi Pethani**





**School Name:**  
 Government High School, Paddhar

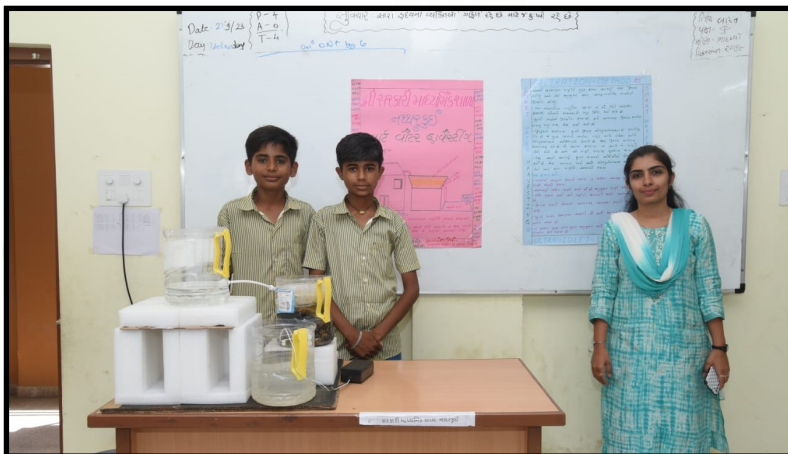
**Model Name:**  
 Effects of color on Health

Color is a powerful communication tool and can be used to signal action, influence mood, and even influence physiological reactions. Certain colors have been associated with physiological changes, including increased blood pressure, increased metabolism, and eyestrain.

In healthcare, color theory is used to create environments that feel safe, healing, and inspiring.



**Ms. Mala Chauhan**



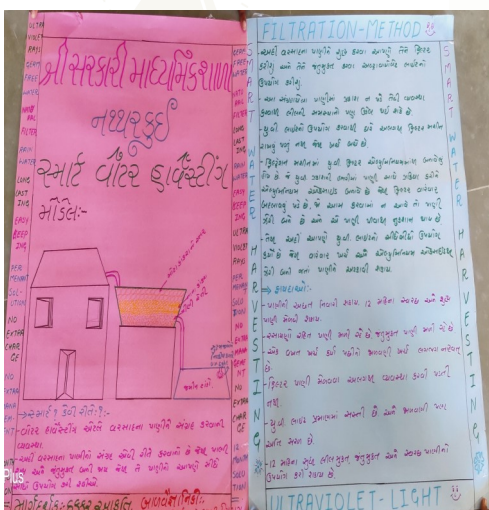
**School Name:**  
 Government High School, Naththarkui

**Model Name:**  
 Smart Water Harvesting System

This smart water harvesting system contains water harvesting, water filtration and U.V. light protection together .



**Ms. Akruti Thakkar**

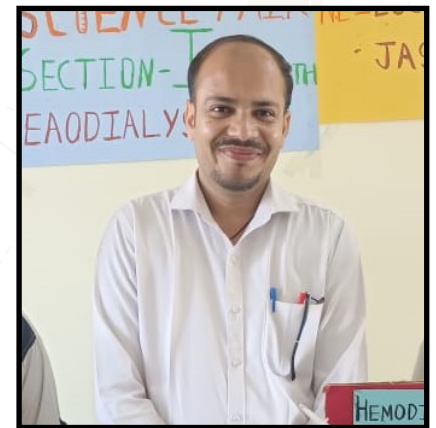




**School Name:**  
Maa Ashapura English  
Sec. & Higher Sec. School

**Model Name:**  
**HEMODIALYSIS**

Kidney is an organ of our body which works to purify the blood and removes waste materials. In modern times, in the middle of a busy life, due to the lack of knowledge about the importance of this body organ, many people lose the precious organ of the kidney. This project only presents an understanding of what happens if not taken care of.



**Mr. Amit Zala**

**HEMODIALYSIS** :- Hemodialysis is Procedure where a dialysis machine and a special filter called an artificial kidney or a dialyzer, are used to clean your blood. To get your blood into the dialyzer, the doctor needs to make an access, or entrance, into your blood vessels. This is done with minor surgery usually to your arm.



**School Name:**

Government High School, Zura

**Model Name:**

**Water Purifier**

Material Used: Coal, Sand, Stone.

Pass out to dirty water convert to clean water.

It provides clean water. An improvised water filter will improve the taste of and remove harmful contaminants from ground or lake water.



**Ms. Apexa Pandya**



# Section-2 Lifestyle for Environment (Models)



**School Name:**  
**Jainacharya Shree Ajaramarji Sec. & Higher Sec. School, English Medium**

**Model Name:**  
**Industrial Water Purification**

Discharge of untreated or inadequately treated wastewater: Industries often discharge wastewater containing harmful chemicals and pollutants into nearby water bodies, which can lead to water pollution.

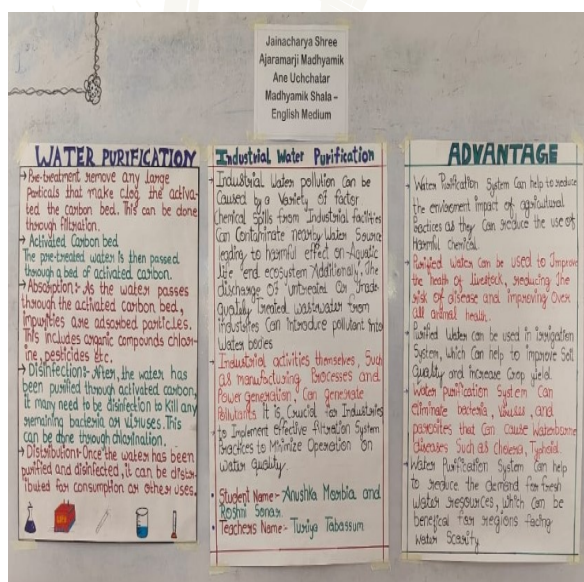
Activated carbon is a highly effective material for the purification of industrial water. It is a porous material with a large surface area that can adsorb impurities and contaminants from water. The activated carbon is typically made from coconut shells, wood, or coal, and is processed to increase its surface area and porosity. In industrial water purification, activated carbon is often used in a granular or powdered form. The water is passed through a bed of activated carbon, which adsorbs impurities and



**Ms. Tabbasum Turiya**

contaminants such as organic compounds, chlorine, and heavy metals. The activated carbon can also remove odors and improve the taste of the water.

Overall, activated carbon is a reliable and cost-effective solution for industrial water purification that can improve water quality and protect equipment from damage.





**School Name:**

Shree Purushottam Vidhyalaya

**Model Name:**

Water Cleaning Boat

The Water cleaning boat Project is an endeavor to clean water bodies with an ambitious mission: to achieve cleaner water-bodies that are free from suspended solids to reduce human intervention and human labor.



**Ms. Bhavika Hirani**



**School Name:**

Government Secondary School, Sukhpar

**Model Name:**

Save Earth

The overall objective of Save the Earth project is to enhance the quality of our global environment for the benefit of all people while promoting a better understanding of the effects our society has on the long-term health of our planet and use more natural energy.



**Ms. Vaishali Bhuva**





**School Name:**

Government Secondary School, Makhana

**Model Name:**

**Know our Earth, Help our Earth,  
Protect our Earth**

### Reasons:

- Due to excessive use of fossil fuels carbon dioxide and methane gas in the atmosphere, CFC's gas in A.C and refrigerator used for cooling, industrial activities, different types of pollution, destruction of forests, global warming etc. are increasing greenhouse effect and ozone layer depletion.

- Due to which day by day the average temperature of the earth, changes in the amount of rainfall, floods, droughts, landslides and various diseases are increasing very rapidly.

- Agriculture is heavily sprayed with insecticides and pesticides to increase food production to feed a growing population. Due to which chemical residues are left on the crop. Which invites various diseases in the human body.

- If this situation is not brought under control, we will all lose the planet.

### Prevention:

- Increase the use of electric vehicles
- Reduce the use of A.C in homes, houses and offices
- Increase use of organic fertilizers in agriculture
- To increase the use of solar energy devices like solar, solar cookers
- Minimize soil excavation
- Reduce use of plastic to plant trees Reduce industrialization
- Periodic cleaning of river, lake, canal etc.

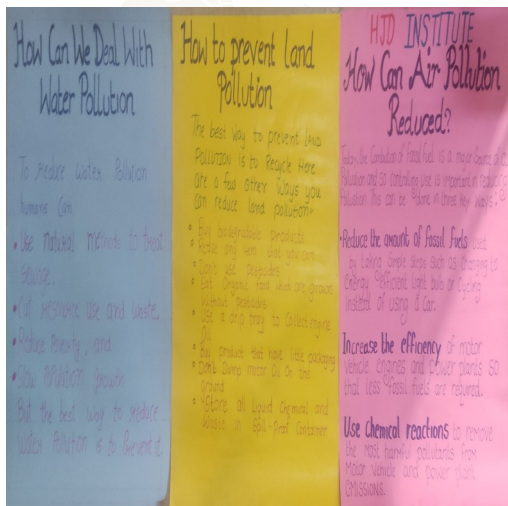


**Ms. Pallavi Patel**



**School Name:**  
HJD Institute, Kera

**Model Name:**  
Urban Village



How to stay pollution free in the village which has all facilities and opportunities just like an urban city? We actually made a model of village in which we described as to how we make our village pollution free and live life in the lap of mother nature.



**Mr. Nikunj Prajapati**



**School Name:**  
Shraddha School and College

**Model Name:**  
Electricity Generator

An electric generator is a device that converts a form of energy into electricity. There are many different types of electricity generators. Most electricity generation is from generators that are based on scientist Michael Faraday's discovery in 1831.



**Ms. Aditi Upadhyay**





**School Name:**

Rasey Mid Secondary School, Nagore

**Model Name:**

Drainage of Rain Water

**લાલ:-**

- ⇒ હેર હેર પાણી ભરાય નહીં. જેથી રસ્તાઓનું હોવાપણ અટકાવી અકસ્માતને ટાળી શકાય.
- ⇒ આ પાણીનો ઉનાળામાં ઉપયોગ કરી શકાય.
- ⇒ સિંચાઈ માટે પાણીને વાપરી શકાય.
- ⇒ ઘરોમાં પાણી ન ધૂને જેથી કચોને વસ્ત્રખરી બચાવી શકાય.
- ⇒ નદીના પૂર રોકી શકાય.
- ⇒ મો ખેતરમાં આ રીતેના ટાંકો બનાવવામાં આવે તો પાડ ઘોવા જેવી અટકાવી શકાય અને સંગ્રહવા પાણીનો સુઃઉપયોગ કરી શકાય.
- ⇒ દરિયામાં સ્તર ઊંચા આવવા થોડે ઘણે અંશે અટકાવી શકાય.
- ⇒ જમીનની જળધારણ શક્તિ વધારી શકાય.
- ⇒ વસ્ત્રાદનાં પાણીને ગરરમાં વહી જતું અટકાવી શકાય.
- ⇒ મૃત્યુઆંક ઘટાડી શકાય.
- ⇒ પાડનાં નાશને ડારણે ખેડૂતોને વારંવાર આર્થિક નુકશાન થાય છે. આ રીતે પાણીની નિકાલ કરવાથી પાડ બચાવી શકાય છે અને આર્થિક લાભ મેળવી શકાય છે.
- ⇒ એક વખત ખર્ચ થાય છે પરંતુ પછી કાચખ માટે પુરતું સંકટ રાખી શકાય છે.

This work is a working model of water drainage where flood conditions are flooded by rainwater. In this work, it is shown that, whether it is a rural area or an urban area where the rain water is overflowing, a 20 by 20 by 10 feet size tank can be made to collect the rain water and send it to a pond or a well for reuse.



**Ms. Aruna Chhuchha**

## Section-3 Agriculture (Models)



**School Name:**

Jainacharya Shree Ajramarji Higher Secondary School (Science Department)

**Model Name:**

Model of Agriculture

Agriculture is the art and science of cultivating the soil, growing crops, and raising livestock. Our project is about different types of farming like, Subsistence farming, Commercial farming and intercropping method.



**Ms. Prarthna Pindoriya**





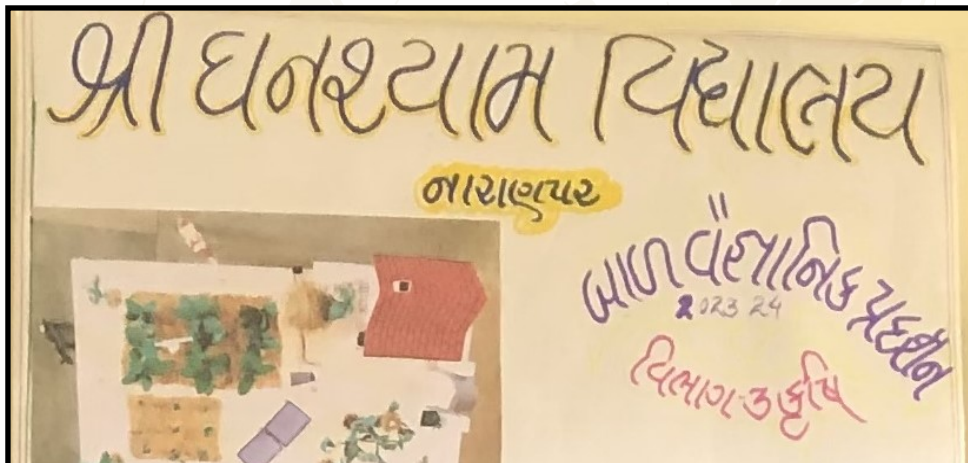
**School Name:**

Shree Ganshyam Vidhyalaya

**Model Name:**

Animal Detection System

Animal detection system is a system to protect the farm crops from animals in which the presence of any laser in the field will sound a buzzer and alert the farmer.



**Ms. Dhwani Pandya**



**School Name:**

HJD Institute, Kera

**Model Name:**

Automatic Irrigation System

Irrigation can be done automatically with the help of this method, in which the moisture content of the soil can be measured and irrigated with the help of sensors, so that the farmer can do more work with less effort for agriculture. As this project does not cost much, all the farmers can easily use this irrigation system.



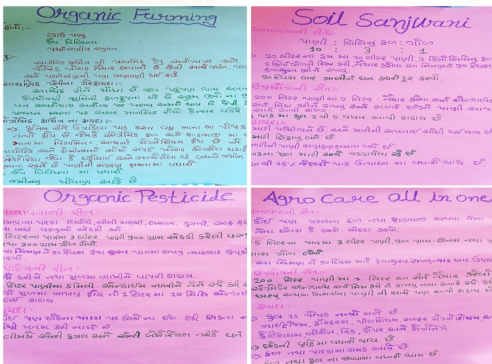
**Mr. Jay Joshi**





**School Name:**  
 Government Secondary School, Mota Reha

**Model Name:**  
 Organic Farming



There are three basic purposes of charting. 1- Get a chemical free crop. 2- The cost of crop production is reduced. 3- Other sources of income should be available along with agriculture.



**Ms. Pooja Soni**

In present time we are seeing that due to unseasonal rains farmers have to face many problems due to which the entire prepared crop of the farmers spoils, so along with agriculture they can do additional business like poultry keeping, bee keeping, animal husbandry or biogas plant etc. for livelihood. The source of income of the farmer can also continue and if the farmer's crop is not spoiled and after being well prepared, is it completely pure when it comes to us as food? Then the answer will be no because many types of chemicals are used to prepare it. If it enters the body, it also harms us, but let us assume that it is completely purified after washing it, but in reality there is some part of chemicals inside it, let us assume that it is purified after washing. Yes but do we wash it and give it to the animals too??! Otherwise, chemicals will also enter inside it, so that it will become a victim of long-term diseases, and the milk of such animals, egg mass or honey also contains part of such chemicals through biological expansion, which enter our body when we consume them and we need them. Chemicals have an effect but we should do organic farming in such a way that we can stay away from such chemicals and avoid diseases. For example, if we talk about honey, we know that bees collect pollen from flowers to make honey, but if pesticides or any kind of chemicals have been used on the flowers, then some part of it will come to honey. We can get completely pure honey if no chemicals are used. Let's get some information about what can be used as fertilizers, pesticides and fungicides in organic farming. The method of making compost and its benefits and the method of making pesticide and its benefits are given in the attached chart.





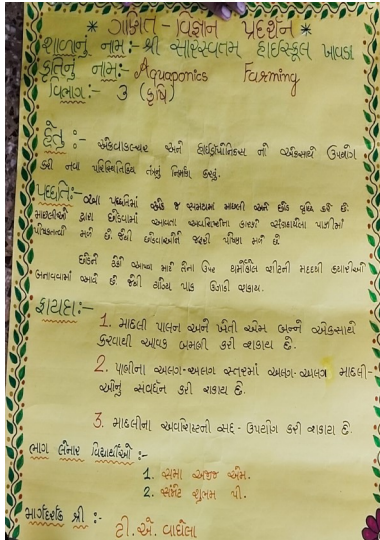
**School Name:**  
Sri Saraswatham Sanchalit  
Khawda High School, Khawda

**Model Name:**  
Aquaponics Farming

Building a aquaculture system that involves fish farming with thermo-col farming. So that the emissions released by the fish can be used by the growing crops as their own nutrients, thereby making the water don't be forced to change frequently.



**Mr. Tanrajsinh Vaghela**



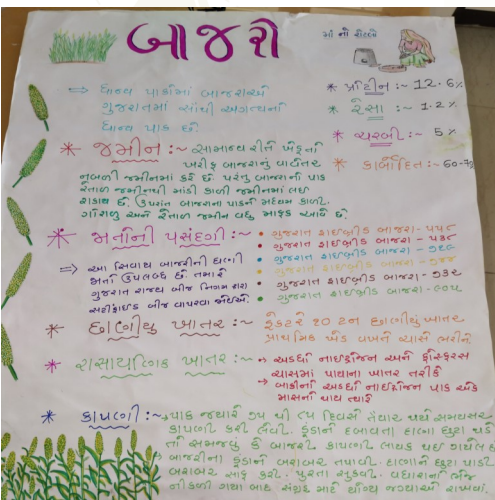
**School Name:**  
Shree Swaminarayan Kanya Vidhya Mandir

**Model Name:**  
Welcome to Millet world

This work provides information on how Millets can be produced and sold.



**Ms. Karishma Kansara**





# Section-4 Communication and Transport (Models)



**School Name:**

Indrabai Girls High School, Bhuj

**Model Name:**

**Anti Sleep Alarm**

As the driver drives for a long journey on the express highway, the chances of getting deeper and the possibility of being united are increasing so anti-sleep limit. It closes the vehicle's engine and rings when the eye closes for two seconds so that the driver becomes alert and the possibility of being excitant does not remain at all.



**Mr. Nayan Vanza**



**School Name:**

Shree Laxminarayan Vidhyarthi Pratisthan

**Model Name:**

**Piezoelectric Roads**

This project aims to generate electricity and decrease the consumption of fossil fuels and conserve the electricity for further use.

In modern world, the technique needs amount of power for its various operations. These operations require a lot of fossil fuels, to overcome this consumption of power and fuels. In this we have presented method to produce pollution free electricity by the technique i.e. piezoelectric effect. This is kind of green solution for power generation.



**Ms. Sejal Rajgor**



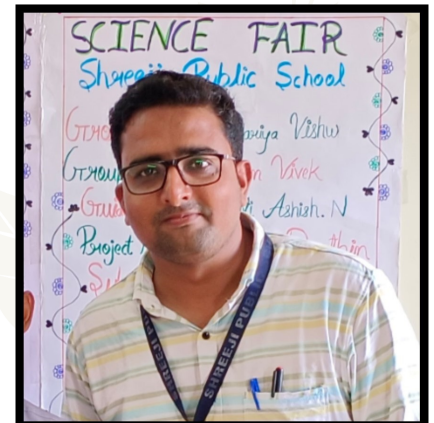
**School Name:**

**Sheeji Public School**

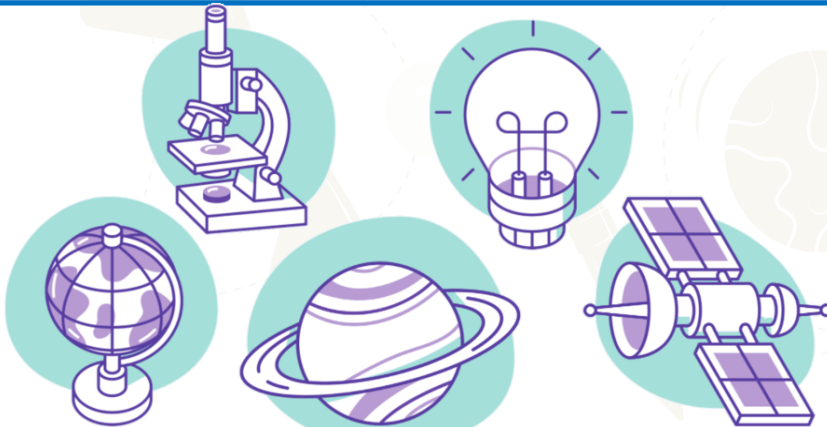
**Model Name:**

**Smart Blind Stick for Blind Person**

This Smart stick will have an Ultrasonic sensor to sense distance from any obstacle, LDR to sense lighting conditions and a RF remote using which the blind man could remotely locate his stick.



**Mr. Ashish Aboti**



**“Science may set limits to knowledge, but should not set limits to imagination.”**





**School Name:**

Shri Kutchi Leva Patel  
Kanya Vidhya Mandir

**Model Name:**

Road and Water Management

Use waste plastic while building roads to avoid water-logging in monsoon season. Collecting road rain water outside the city through pipelines and making proper use of it.



**Ms. Mansi Gorasiya**



**School Name:**

Shree Purushottam Vidhyalaya

**Model Name:**

Garbage to Electricity

The Purpose of Making this Project is to generate electric energy from waste Materials such a plastic ,rubber ,waste and waste etc. and to convert that less electricity energy into more high power electricity energy by electric coil , this process is called boosting Process. It also includes all those waste materials which is been collected by Municipals Corporation also which includes rotten food stuffs, treated biomedical solid wastes etc.



**Mr. Hardik Vyas**

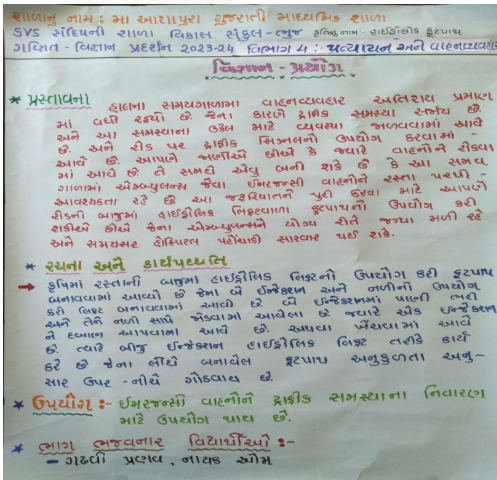


**School Name:**

**Maa Ashapura Secondary & Higher Secondary School, Bhuj**

**Model Name:**

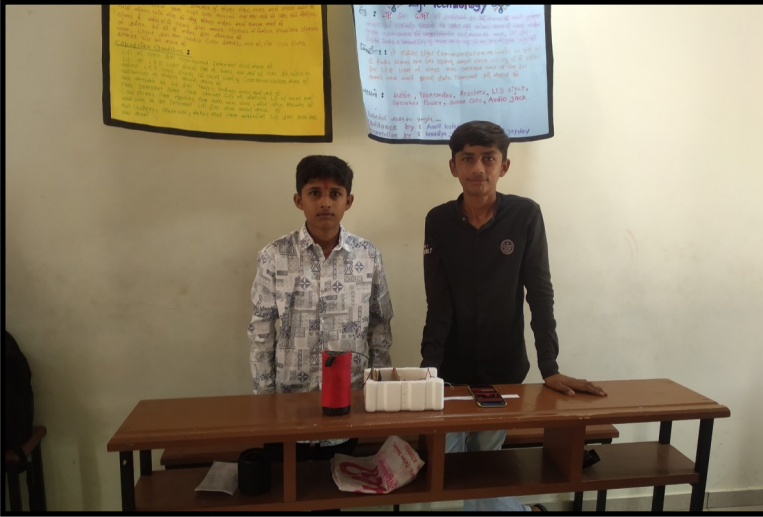
**Hydraulic Pavement**



A route for emergency vehicles stuck at traffic signals due to increased traffic in the current period.



**Mr. Mayankgiri Goswami**



**School Name:**

**Government High School, Sada Habai**

**Model Name:**

**Li fi technology**

LiFi (Light Fidelity) is a wireless communication technology that uses LED light to transmit data. It is a light communication system.

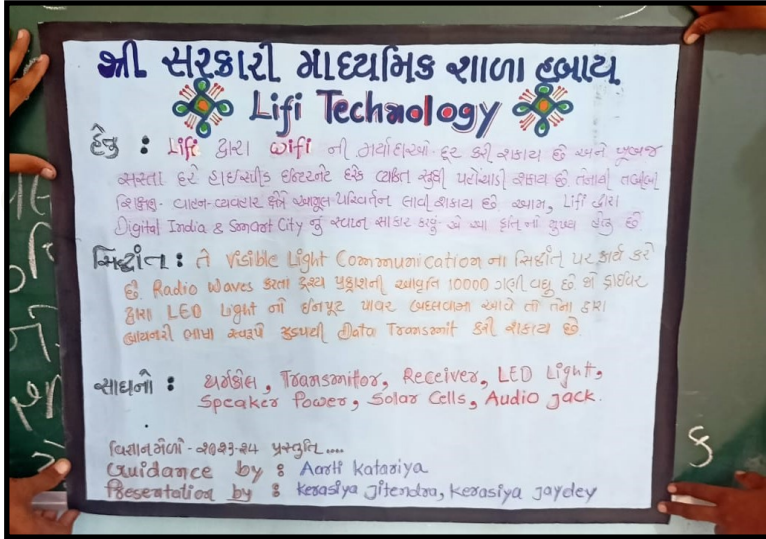
The term was first introduced by Harald Haas during a 2011 TEDGlobal talk in Edinburgh.

LiFi technology is widely considered to be generally more secure than WiFi.



**Ms. Arti Katariya**





It can be used for road safety and traffic management, underwater communications, aviation, transportation, industrial processes, indoor map reading and establishing connectivity in hazardous areas.

Akrund and Navanagar villages in Gujarat's Aravalli district have become India's first smart villages with LiFi-based internet connectivity.

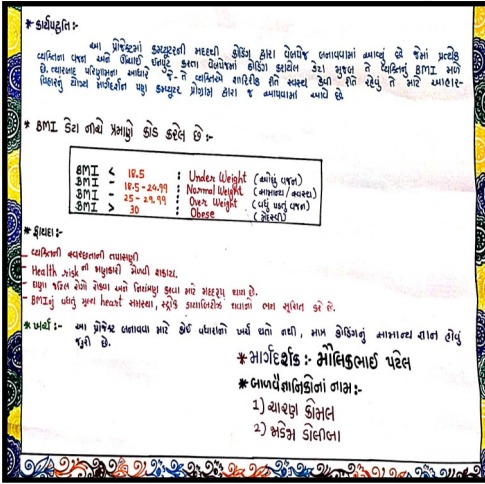
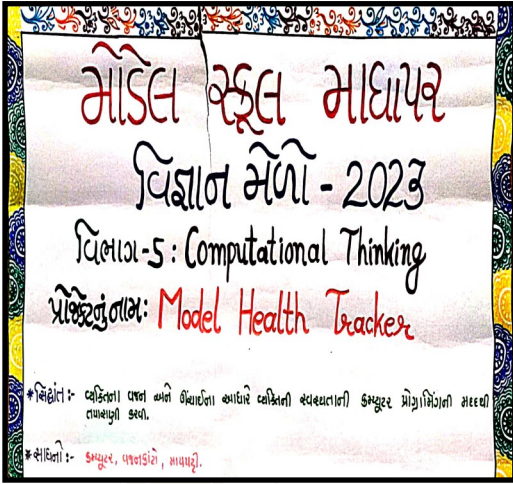
## Section-5 Computational Thinking (Models)



**School Name:**  
**Model School, Madhapar**

**Model Name:**  
**Model Health Tracker**

In the model health tracker project, a web page is created by coding a person entering their weight and height which gives the web page information about how healthy the person is and also what the person needs to do to get healthy if the person is not. What to eat and what kind of exercises to do are guided by the app itself so that anyone can check their own health at home and stay healthy. We all know that if the body is healthy then the mind is also healthy and if both are healthy then everyone can be happy and can make great progress in their life then this project has been made with the aim of making everyone healthy.



Mr. Maulik Patel



School Name:

Chanakya Academy, Bhuj

Model Name:

AI used in Maths

Chat GPT is AI tool which we can use freely. So we used it for problems related to maths and it give better answer than Google. So any unknown problem which is not solved in past and Google don't have any solution about it but AI Chat GPT solve it by its own.



Mr. Parasar Thacker



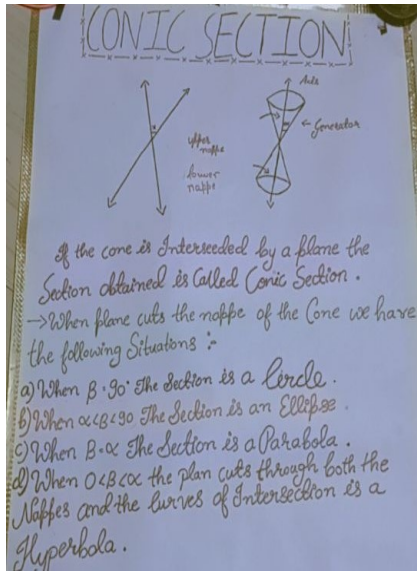
School Name:

BMCB Public School, Lakhond

Model Name:

Conic sections and it's application





The project explores conic sections and their practical applications. We constructed 3D models of cones, demonstrating how various shapes – circle, parabola, hyperbola, and ellipse – can be derived by cutting the cone with a 2D plane at different angles. Additionally, we created models to illustrate the real-life uses of hyperbolas and parabolas. Our project included the



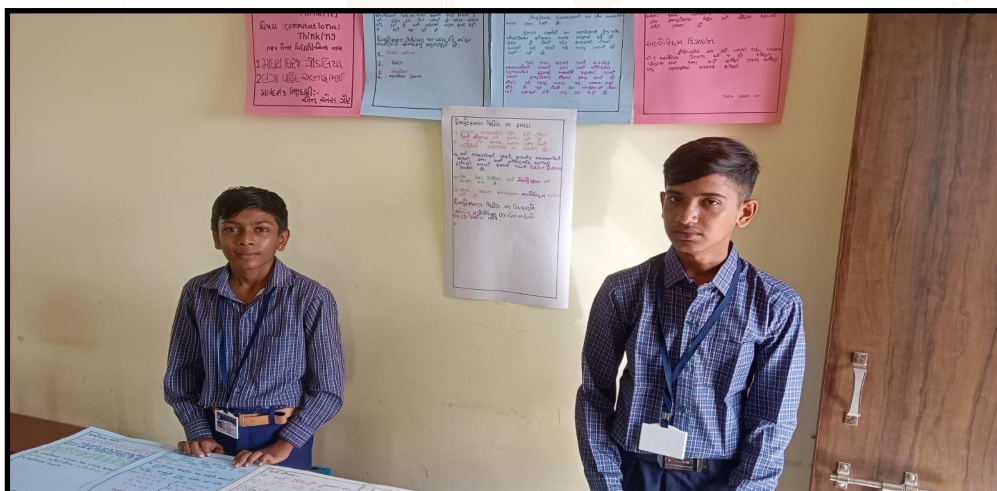
**Pathan Faizalkhan**

construction of a suspension bridge and hyperbolic models, along with interactive activities aimed at showcasing the practical applications of circle, parabola, hyperbola, and ellipse in real-life scenarios.



**School Name:**  
 Government High School, Surajpar

**Model Name:**  
 Computational Thinking



**Mr. Nikhil Gor**

Computational Thinking is a problem-solving process that enables students to think, learn and create to solve problems. The four pillars at the heart of our work involving Computational Thinking are decomposition, pattern recognition, abstraction and algorithm design.





**School Name:**  
Government Secondary School, Bhujodi

**Model Name:**  
Maths Park

સારાના માધ્યમથી રાખા, ભુજોડી  
વિષય: ગણનામક્રિયિતન પ્રક્રિયા (MATHS PARK)

**\* દાનક્રમના સૂત્રો \***

- \* ચોરસનું દાનક્રમ =  $l \times l$
- \* ચોરસનું દાનક્રમ =  $l^2$
- \* સમઘનનું દાનક્રમ =  $l^3$
- \* ચોરસનું દાનક્રમ =  $l \times b \times h$

**\* ક્ષેત્રફળના સૂત્રો \***

- \* સમઘનનું ક્ષેત્રફળ =  $6l^2$
- \* ઘનઘનનું ક્ષેત્રફળ =  $2(lb + bh + hl)$
- \* ઘનઘનનું ક્ષેત્રફળ =  $4l^2$
- \* ચોરસનું ક્ષેત્રફળ =  $l \times l$
- \* ઘનઘનનું ક્ષેત્રફળ =  $2lx + 2lx + 2lx$

**\* પાયાધારીત્રસંજ્ઞા પ્રમેય \***

આક્રમિત ત્રિકોણમાં અર્ધની વર્ગ બાકીની બે બાજુના વર્ગના સરવાળા જેટલો થાય.  
એટલે કે,  $AC^2 = AB^2 + BC^2$

\* જુદી જુદી ત્રિકોણો :-

(a) 3 : 4 : 5      6 : 8 : 10      10 : 24 : 26  
                   9 : 12 : 15      15 : 36 : 39  
                   15 : 20 : 25      20 : 48 : 52

વિદ્યાર્થીઓના નામ :- (i) જિજ્ઞાસા બીન અંગરિયા  
 (ii) દર્શિત ડી અંગરિયા

This project shows Practical application of Mathematical formulas like, Volume, Area and Pythagorean Theorem. With the help of this model we can easily measure volume and area of polygon shapes.



Ms. Nikiben



**School Name:**  
Shree Purushottam Vidhyalay

**Model Name:**  
Maths Cube Model

A cube is a three-dimensional shape made up of width, height, and depth. It's made up of 6 squares, or faces, and these are equal in size. To find how much wrapping we need for a cube, or its surface area, we multiply height x width x 6.



Ms. Bhavika Hirani





**School Name:**

**Shree Swaminarayan  
Kanya Vidya Mandir**

**Model Name:**

**Linear Programming Problems**

The Linear Programming Problems (LPP) is a problem that is concerned with finding the optimal value of the given linear function. We have used Graphical method to solve linear Programming Problems.



**Ms. Kiran Pokar**



**School Name:**

**Government High School, Zura**

**Model Name:**

**Parts of a Circle**

The circle looks similar to the letter “O.” Based on the shape and position, there are different parts of a circle in geometry that can be listed as center, radius, circumference, diameter, chord, arc, segment, tangent, secant, and sector. Our Model explains the concept and parts of a circle like, Radius, Center and Diameter.



**Ms. Apexa Pandya**



# Science Fair - News Paper Articles

**DAILY DIGITAL NEWSPAPER OF KUTCH**  
**INCREDIBLE NEWSPAPER**  
 EDITOR IN CHIEF: KARISHMA MANI REG NO: GJ-13-0028324 MOBILE NO: 9979160097

અંતિમ આવૃત્તિ (પૂર્વ કચ્છ) જુજ (પશ્ચિમ કચ્છ)થી પ્રસિદ્ધ હતું અને દિવસ દિવસ અંતિમ આવૃત્તિ પ્રસિદ્ધ હતું અને વર્ષ દિવસ દિવસ પ્રસિદ્ધ થઈ રહ્યું હતું. આ કચ્છી સંસ્કૃતિ અને સાંસ્કૃતિક વારસાને જીવંત રાખવા અને આપણા યુવાનેશ્વરોને તેમાંથી પ્રભુતા અને આત્મવિશ્વાસ પ્રદાન કરવા માટે આ સંસ્કૃતિ ઉત્કૃષ્ટ સમગ્ર કચ્છ તાલુકાની 67 શાળાઓએ ઉત્સાહભરે ભાગ લીધો હતો. જેમાં કાર્યક્રમના ઉદ્ઘાટન સમયે પ્રમુખ તરીકે શ્રી શંકરભાઈ સરખે (વિસ્મયદેવ એન્ડ નેટરી ડિસ્ક્રીક્ટર ઓફ કચ્છ) શાળાના મેનેજીંગ ટ્રસ્ટી હેલ્પભરે બારોટ તેમજ કેમ્પસ ડાયરેક્ટર રમેશભાઈ બેરા તેમજ DEO કચ્છીયા ઈ મા. શ્રી બી. એમ. વાઘેલા, મનશુરી સાહેબ, ટીપીકા પંડ્યા તથા DIET ના વાઈસ ચાઈફ શ્રી આશીષભાઈ સુથાર તથા SVS કચ્છીયર તેજશભાઈ પાટક તથા શાળાના અધ્યક્ષશ્રી સોનલબેન ચેટ્ટરજી અને શાળાના કો-ઓર્ડિનેટર નીખતબેન મેનન ઉપસ્થિત રહ્યા હતા. પ્રમુખ દ્વારા ગણિત વિજ્ઞાન પ્રદર્શનમાં ભાગ લેનાર દરેક વિદ્યાર્થીઓને શુભેચ્છા પાઠવી હતી તેમજ આવા વિદ્યાર્થીઓને લીધે ભારતનું ભવિષ્ય ઉજવણ બની રહેશે તેવી કામના કરી હતી. શાળાના મેનેજીંગ ટ્રસ્ટી દ્વારા વિદ્યાર્થીઓને શિક્ષકોને તથા ભાગ લેનાર તમામ શાળાઓને મોમેન્ટો એનાયત કર્યાં હતાં. શાળાની સ્થાનના કમ્યુનિટી હેલ્થ પ્રમુખશ્રી તથા મહેમનના કરવામાં આવ્યું હતું. આ બાળ વૈજ્ઞાનિક પ્રદર્શન ના વિજ્ઞાનક તરીકેની ભૂમિકામાં ભુજના નામાંકિત અને શિક્ષકવિદ એસ હોરાલાલ સોની, સુલતાનભાઈ મોરારાઈ, કૌશિકભાઈ પોલરા, શિવભાઈ સુથાર, ઉશ્વલકાંભાઈ સોનેજી, ચીમનભાઈ દેડકિયા, અનિલભાઈ ગોર, શ્રુતિબેન જરાદી, પ્રિતેશભાઈ જરાદી તથા મંજુલાબેન મહેશ્વરી જોડાયા હતા. અંતમાં કાર્યક્રમની આભારવિધિ કચ્છના જ્ઞાણીતા શિક્ષકવિદ કૌશિકભાઈ પોલરા દ્વારા કરવામાં આવી હતી.

સુપરકર, ઈસ્માઈલભાઈ મંજુલાબેન મહેશ્વરી જોડાયા હતા. આભારવિધિ કૌશિકભાઈ પોલરા દ્વારા કરવામાં આવી હતી..

**ભુજ તાલુકાના બાળ વૈજ્ઞાનિક પ્રદર્શનમાં 67 શાળાઓએ ભાગ લીધો**

**ભુજ :** વિષ્ણુધર્મ સ્કૂલ ખાતે જિલ્લા શિક્ષણ અને તાલીમ ભવન ભુજ દ્વારા પ્રેરિત જિલ્લા શિક્ષણાધિકારીની કચેરી તથા સાંદિપની શાળા વિકાસ સંકુલના સંયુક્ત ઉપક્રમે સમગ્ર ભુજ તાલુકાની 67 શાળાઓએ ઉત્સાહભરે ભાગ લીધો હતો. કાર્યક્રમનું ઉદ્ઘાટન પ્રમુખ શંકરભાઈ સરખે, મેનેજીંગ ટ્રસ્ટી હેલ્પભરે બારોટ, ડાયરેક્ટર હેમંતભાઈ બેરા, બી.એમ. વાઘેલા, શ્રી મનશુરી, ટીપીકા પંડ્યા, અશ્વિનભાઈ સુથાર, તેજશભાઈ પાટક, આચાર્ય સોનલબેન ચેટરજી, નીખતબેન મેનન ઉપસ્થિત રહ્યા હતા. પ્રમુખ દ્વારા ગણિત વિજ્ઞાન પ્રદર્શનમાં ભાગ લેનાર દરેક વિદ્યાર્થીઓને શુભેચ્છા પાઠવી હતી તેમજ આવા વિદ્યાર્થીઓને લીધે ભારતનું ભવિષ્ય ઉજવણ બની રહેશે તેવી કામના કરી હતી. ટ્રસ્ટી દ્વારા વિદ્યાર્થીઓને શિક્ષકોને તથા ભાગ લેનારને મોમેન્ટો એનાયત કર્યાં હતા. નિષ્ણાંક તરીકે હીરાલાલ સોની, સુલતાનભાઈ મોરારાઈ, કૌશિકભાઈ પોલરા, શિવભાઈ

**Note: We have only included those schools who has shared their details through Google Form.**

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Design : Jyoti Graphics, Bhuj. 9662981241





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**2023**



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**JILADIA MRUTYUNJAY**

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**MAKWANA SUMIT**

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**LUHAR PARV**

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Group A | **PR : 85.00**



**RATHOD KARANSINH**

Group A | **PR : 82.05**



**PATEL HET**

Group B | **PR : 80.00**



**MAKWANA VANSHIKA**

Group B | **PR : 77.05**



**SAKARIYA JEET**

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11<sup>th</sup> SCI EM



2023



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Group A | **PR : 94.74**



**THAKKAR KAVYA**  
Group A | **PR : 92.11**



**POMAL NEEL**  
Group A | **PR : 89.47**



**SHAH NICK**  
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**PATEL KHUSH**  
Group B | **PR : 81.56**



**THACKER TEESHA**  
Group A | **PR : 78.95**



**LALJIYANI IMAZ**  
Group B | **PR : 76.31**



**FUFAL NIHAL**  
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Group B | **PR : 97.37**

12<sup>th</sup> SCI GM



2023



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Group B | **PR : 94.74**



**VAGHAMSHI PRIYA**

Group B | **PR : 92.11**



**MUNDAADA PRIYANSHI**

Group B | **PR : 89.47**



**CHUDASAMA HETA**

Group B | **PR : 86.84**



**BHANUSHALI JIYA**

Group B | **PR : 84.21**



**JADEJA CHIRAGSINH**

Group A | **PR : 81.58**



**RATHOD SANJAY**

Group A | **PR : 78.95**



**BIJLANI RAJAN**

Group B | **PR : 76.31**



**GAMETI PRACHI**

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