Honey Bee Network | National Innovation Foundation

IGNITE 14

CHESS BOARD OF CREATIVITY
HARNESSING UNCERTAINITY

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IGNITE 14

Curiosity | Compassion | Creativity

November 2014

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

Dr. A. P. J. Abdul Kalam

Dr. R A Mashelkar

Creativity is a natural attribute of children. We all have observed them playing for hours with a cap of a bottle or an empty tin. Children invent their own games when young and don't mind changing rules when it suits them. Slowly and slowly they learn to become rule bound. But tendency to be compliant and congruent starts taking a toll. Teachers and parents also reinforce the habit of thinking within a given frame. Children begin to realise that often there is a specific right answer to a question. And this is the one given by teacher.

It does not take long then for such children to stop asking uncomfortable questions, and thinking beyond conventional boundaries. National Innovation Foundation has been scouting creative children with the help of Honey Bee Network volunteers. These children have an unusual ability to perceive unmet needs at home or in neighbourhood or in the larger society. Every year, NIF recognises outstanding children from all over the country. It is a great privilege for us to have Dr APJ Abdul Kalam, former President of India to honour Ignite award winners year after year. He has a special connect with children having interacted with millions of them.

NIF is proud to be a part of this social movement which has created global benchmark in uncovering creativity of the children as well grassroots innovators from informal sector. I congratulate all the winners of the Ignite 2014 competition and hope that they will continue their creative pursuits in the service of society and humanity.

May God bless you all

R.A. Mashelkar
F.R.S., Chairperson,
National Innovation Foundation - India

Prof. Anil K Gupta

Empathetic education: India 2025

Indian aspirations for shaping the global discourse and developmental trajectory are becoming more pronounced as its economic growth is picking up. Recent agreement between the two of the super powers, USA and China on curbing their pollution levels for arresting the climate change impacts has increased expectations from the third largest contributor to the matter. Cleaner cities and greener areas are in India's own interest. These have a direct measurable impact on the health expenditure of common people whose ability to insulate themselves from these effects is limited. How can children play a role in shaping Indian policies, institutional design and mindset? The creative ideas of children being awarded under IGNITE competition of NIF at the hands of Dr. APJ Abdul Kalam indicates a considerable empathetic incline towards addressing the unmet social needs. Can we amplify this bias even more? Can we engage our children at an early age with the challenges confronting India today and in future so that their imagination becomes the motive force of a transformative nation building process? Nobody will deny the fact that such children have the maximum stake in shaping the future of our society because they will live longest and suffer the consequences of our persistent indifference the longest.

When Chhaya, student of class seven thought about an inclined pipe fitted with water taps in a primary school, she questioned seven decades of inertia in not providing drinking water taps in the school at different heights for the shorter and the taller children. Ram Nikash from Kanyakumari does not like the habit of the adults for getting down or climbing from a moving train at railway platform. He suggested retractable railings which will prevent such hazardous carelessness. Modifying bicycle for physically challenged riders with one leg occurred as something very obvious to Shub Dholakia. Adarsh,

class ten, Bihar had noticed the wastage of energy and accumulation of anger when people get caught up in the traffic jams. He suggested in addition to the red, yellow and green lights at corssroads, an additional blue light to indicate traffic jam ahead. People can change their course without accentuating the problem for them and others. Imagine if the traffic police worldwide accept this suggestion, a small idea from Katihar, Bihar would have changed the way traffic jams are managed world over. This is an indication how children's ideas can influence not just local problems but even global problems. Bio-fertilizer from cockroaches might appear strange and annoying to some. But we should not forget the fact that these insects have probably been longest surviving worms on the earth. Why not harness their sturdiness for meeting an important need for rejuvenating soil and other production systems. Ananya from Chandigargh didn't hesitate in thinking odd. Swapnanil from Assam was bothered that people without hands have difficulties in turning the pages of books and he designed a machine for the purpose. Similarly, Preyansh and Karan may not have visited any mine but were saddened by the plight of workers trapped in damaged mines. If their location could be accurately mapped from outside, the relief measures could be targeted more accurately. On November 19, 2014 Dr. Kalam will inspire and encourage many kids like these to make India a developed and empathetic nation.

There are certain fundamental changes required to make a society samvedhansheel [empathetic]:

a) I don't have to personal suffer from a problem to experience the pain that somebody else suffers from;

b)The increasing uncertainty in the world can put me in a situation when I may be even more vulnerable than the people whose pain I may ignore today. God forbid, if there is a train accident in a remote area, the question of who lives and dies will depend upon how well the nearby primary health centre works and how much of voluntary spirit communities in the nearby villagers have to save life. We can ignore the conditions in primary health centres assuming we can afford the best hospitals in the world. We may also ignore an immigrant worker who might have met with an accident on the road because we don't suspect ever to be in a similar situation; c) I have received so much help from strangers in my life who I have no way to reciprocate. I am not the only one; d) We have all enjoyed resources, the shade of an old tree on the roadside or other services for which we have not paid anything and in creation of which, we have no contribution; e) The creative ideas and innovations are seldom completely original. Any new building needs a lot of bricks, many of which were not baked by me, or for me, or based on my ideas. Open source sharing of ideas has helped society to solve so many of its problems;

and f) We can balance or compare our personal ambitions, desires and aspirations with the unmet needs and desires of those who may seldom be able to dream a flight in an open sky of freedom.

Our children can do wonders. They should not be tutored too much, trained too tightly and must be allowed to develop. Many of us have forgotten the word 'develop' comes from the word 'envelop'. To develop is to uncover. The word 'training' comes from the practice of guiding a vine or a creeper around a supporting stand. The education is expanding the horizon of thinking and extending the timeframe of imagination. After Meiji's restoration, Japan decided to set up a working group to make educational plan for the country. They sent delegations to different parts of the world to understand how children are educated. After a year and half when the delegations came back, they wrote a 200 year perspective plan for education in Japan. It is not surprising therefore that Japan was the first Asian country to become 100 per cent literate at the turn of the century. India still lags behind despite constitutional commitments to do otherwise. The mandarins in Shastri Bhawan have to wake up and realize that our children deserve much more than what they are getting and they will be surprised by the playful, irreverent and spontaneous ways in which our children will rise to the occasion. We should stop sermonizing them. I will repeat what my grandfather said: don't ever try to teach children. They observe you all the time. We have to create a culture of co-learning every time a child/student asks a question I cannot answer, I feel blessed. My day is made. I learn. We all learn. I hope that our educational system will not remain committed to age old theories of learning without responsibility, inducing love without empathy and showing a dream of life which lacks long term vision. India will transform only with the help of its children.

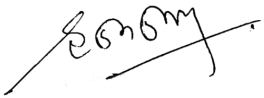
Prof Anil K Gupta
Executive Vice Chairperson,
National Innovation Foundation - India

Dr. Vipin Kumar

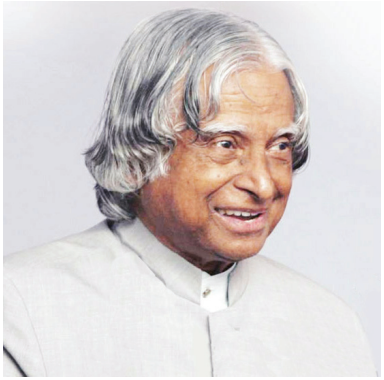
With every passing year, the response to IGNITE competition has been growing. Starting with a few hundred submissions in 2008 nationally, the campaign has been able to mobilise over 27000 submissions in 2014. With increasing response, NIF has had to bring about suitable changes in its processes to be able to review each entry appropriately within the stipulated time. Many colleagues have had to stretch themselves more. But then IGNITE has never been considered simply as a competition by NIF. It is a nation building process where we urge the children to remain impatient with the inherent societal inertia and come up with creative solutions to persistent problems. We want to send a clear message to the children that to be the leaders of the nation tomorrow, they will have act today. We are very happy with the kind and range of ideas received from the children. The future does appear bright, the IGNITE experience amply demonstrates.

My sincere gratitude to Dr RA Mashelkar, Chairperson NIF, Prof Anil K Gupta, Executive Chair NIF and Governing Board Members for their continued motivation, guidance and support. Central Board of Secondary Education (CBSE), Directorate of Higher Education, Himachal Pradesh, Goa Board of Secondary and Higher Secondary Education, Council of Higher Secondary Education, Manipur, Haryana Board of School Education, Nagaland Board of School Education, Mizoram Board of School Education also deserve our deep appreciation for supporting the IGNITE campaign actively. I also take this opportunity to thank all my colleagues at NIF, SRISTI, GIAN and HBN for the wonderful support to the campaign.

I congratulate all the award winners and hope they will remain courteous, compassionate and creative, and serve our society in the best possible way. With my good wishes to them and all others.



Dr. Vipin Kumar,
Director & Chief innovation Officer
NIF India



7 point oath for students

- I realize, I have to set a goal in my life. To achieve the goal, I will acquire the knowledge, I will work hard, and when the problem occurs, I have to defeat the problem and succeed.

- As a youth of my nation, I will work and work with courage to achieve success in all my tasks and enjoy the success of others.

- I shall always keep myself, my home, my surroundings, neighbourhood and environment clean and tidy.

- I realize righteousness in the heart leads to beauty in the character, beauty in the character brings harmony in the home, harmony in the home leads to order in the nation and order in the nation leads to peace in the world.

- I will lead an honest life free from all corruption and will set an example for others including my home to adopt a righteous way of life.

- I will light the lamp of knowledge in the nation and ensure that it remains lit for ever.

- I realize, whatever work I do if I do the best, I am contributing towards realizing the vision of developed India 2020.

(Source: http://www.abdulkalam.nic.in/address_airindia_pres.html)


Sarthak Shukla
Abid Khurshid
Shaik Muzammil
Jenish Shah
Shubh Dhol


ukla
Rohit Tiwari
Yatharth Saxena
Samraddh Saxena
holakiya
Chhaya Sambhoji
Ram Nikash

Modification in shoe to alleviate knee pain

Shaik Muzammil Pasha, Class 6, Castle Town High School, Hyderabad, Telangana

Young Muzammil has built upon the concept of negative heels at a particular angular incline for designing shoes that alleviate knee pain. In addition, he has added arch for support and made few other design changes.

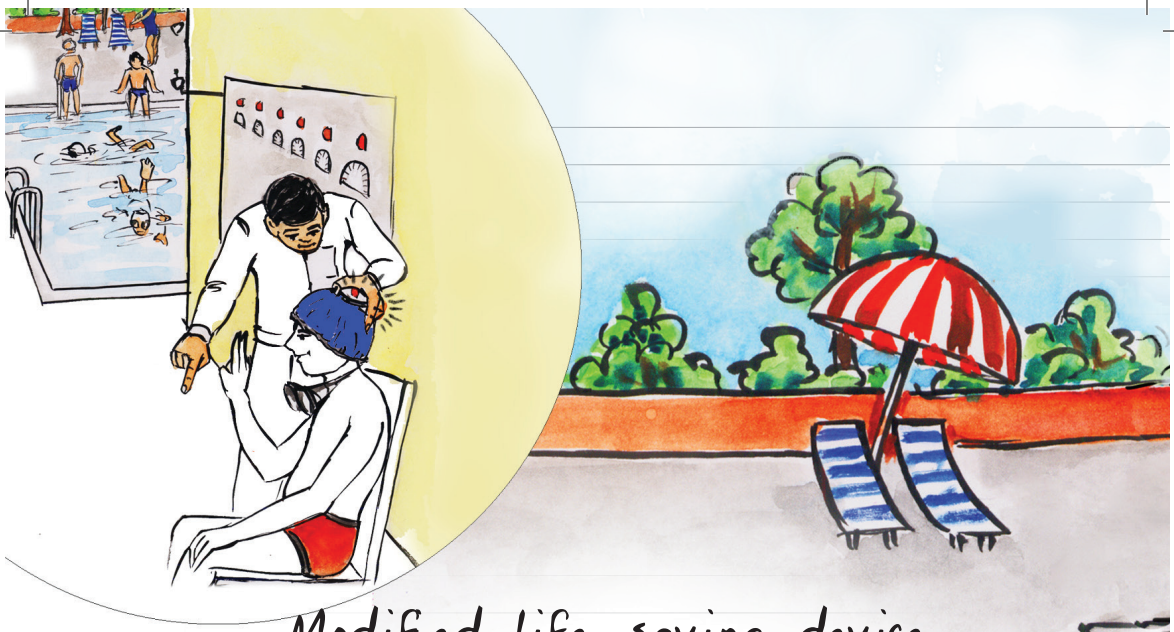
He conceived the idea after noticing his uncle visit a doctor frequently to consult for his knee pain. Besides having a great interest in science, Muzammil also likes cycling and painting. He does yoga and meditation regularly.

Mobile charger/laptop adapter with inbuilt power backup

Md. Aabid Khursheed Raina, Class 6, Jawahar Navodaya Vidyalya, Kulgam, Jammu & Kashmir | Rohit Tiwari, Class 12, PTJM Saraswati Vidya Mandir, Bokaro, Jharkhand

The idea is to have an inbuilt battery in the mobile charger or a laptop adapter, which gets simultaneously charged with the device when it is plugged into an electricity source. Having such a charger/adapter would thus not require a separate power pack or a battery to be carried along.

Shy in nature, Aabid has been a good student and likes playing Kho-Kho and carom. He loves to play harmonium and congo. He wants to become an agricultural scientist. Wanting to become an engineer, Rohit likes reading books and periodicals and plays volleyball. While Aabid thought about this idea during a school picnic, Rohit conceived this during an electricity outage for a couple of days at his home.



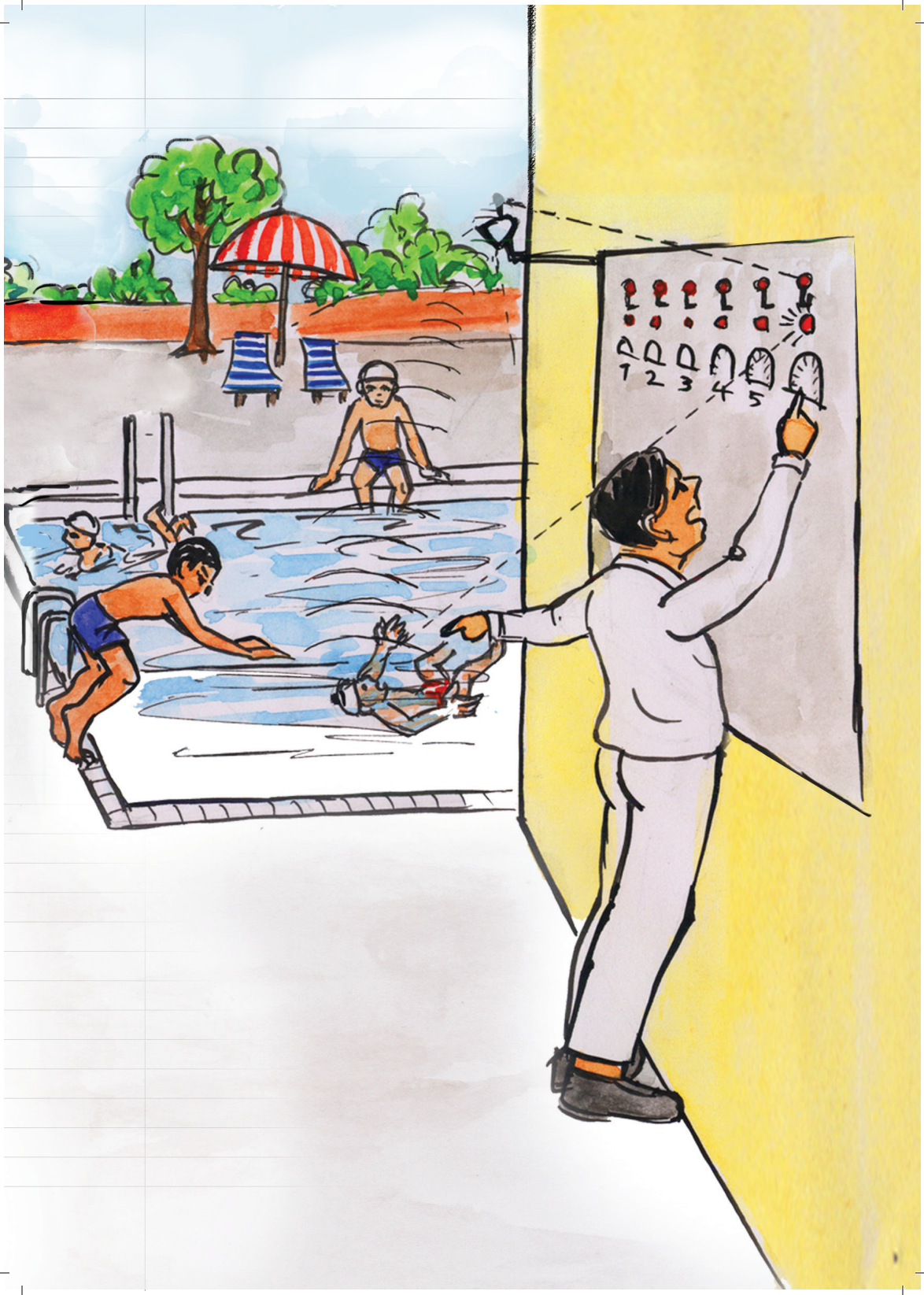
Modified life saving device for swimming learners

Samraddh Saxena and Yatharth Saxena, Class 6 &10, Campus School, Pantnagar, Uttarakhand

This is a head worn device, which alerts lifeguards once a swimming learner stays under water beyond a preset time.

The brothers came up with this device after hearing about the death of one of their fellow school mate due to drowning. This devices gets activated once the user goes under water and starts an alarm if s/he stays under water beyond a set number of seconds, which can be changed as per user's capacity to hold his/her breath.

Young Samaraddh has interest in science and maintains a diary to note various ideas that come to his mind. Yatharth first received IGNITE award in 2009 for his triangular wheel arrangement for carrying luggage over a staircase. he has grown up to be a good orator. He loves computers and wants to become a software engineer.



Automatic railings at railway platform edge

Ram Nikash, Class 7, Excel Central School, Kanyakumari, Tamil Nadu

The idea is to have railings at the edge of the railway platform to prevent people stepping down or boarding in a running train. This also prevents people from jumping on the railway lines to cross over to the other side. This railing comes down when a train arrives so that passengers can board the train or disembark easily.

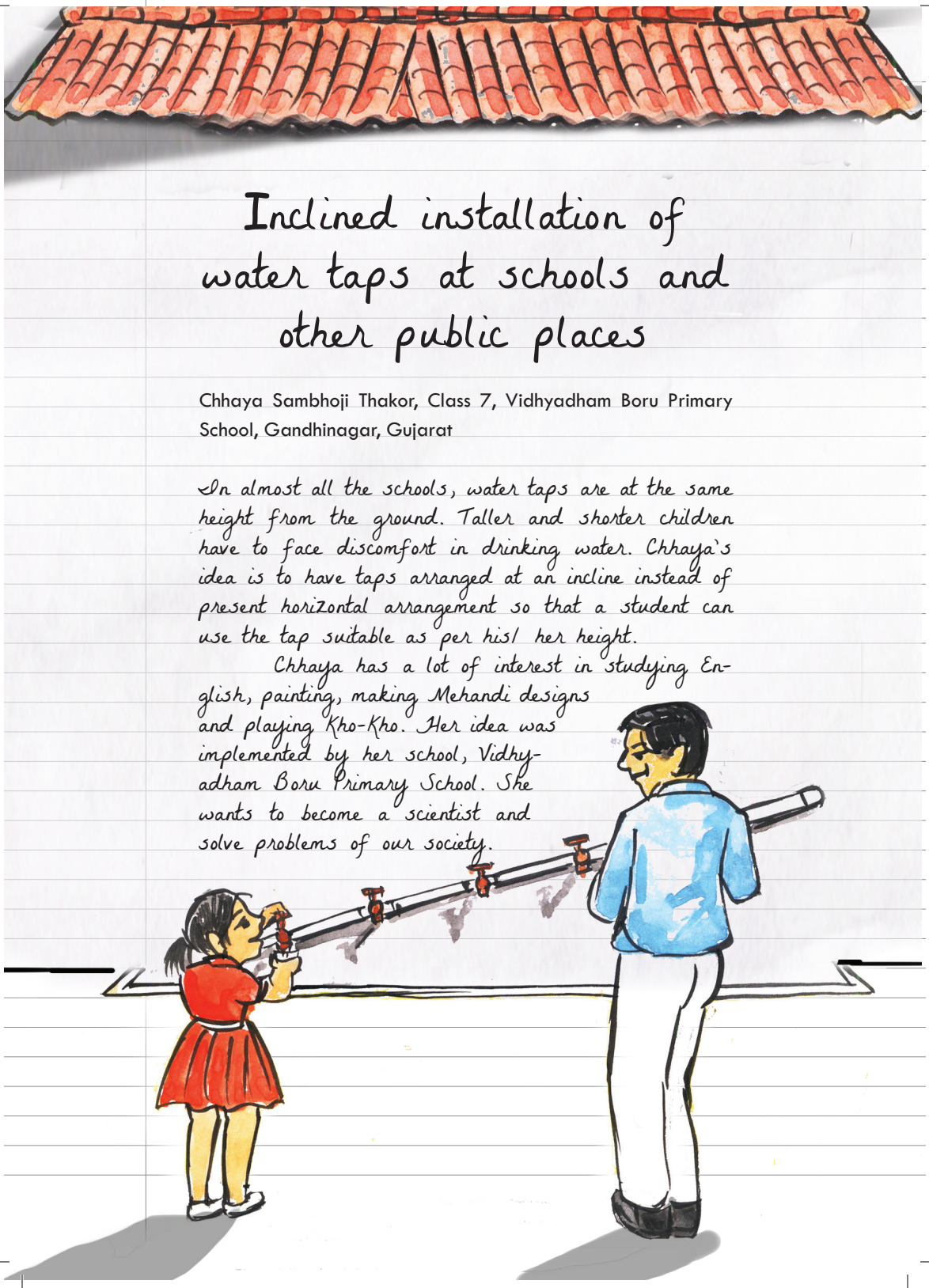
The idea stemmed from an accident witnessed by Ram Nikash. He likes reading Enid Blyton and watching Hollywood movies. His favorite artist is Jeremy Lee Renner. He also likes chess and wants to become a space scientist.

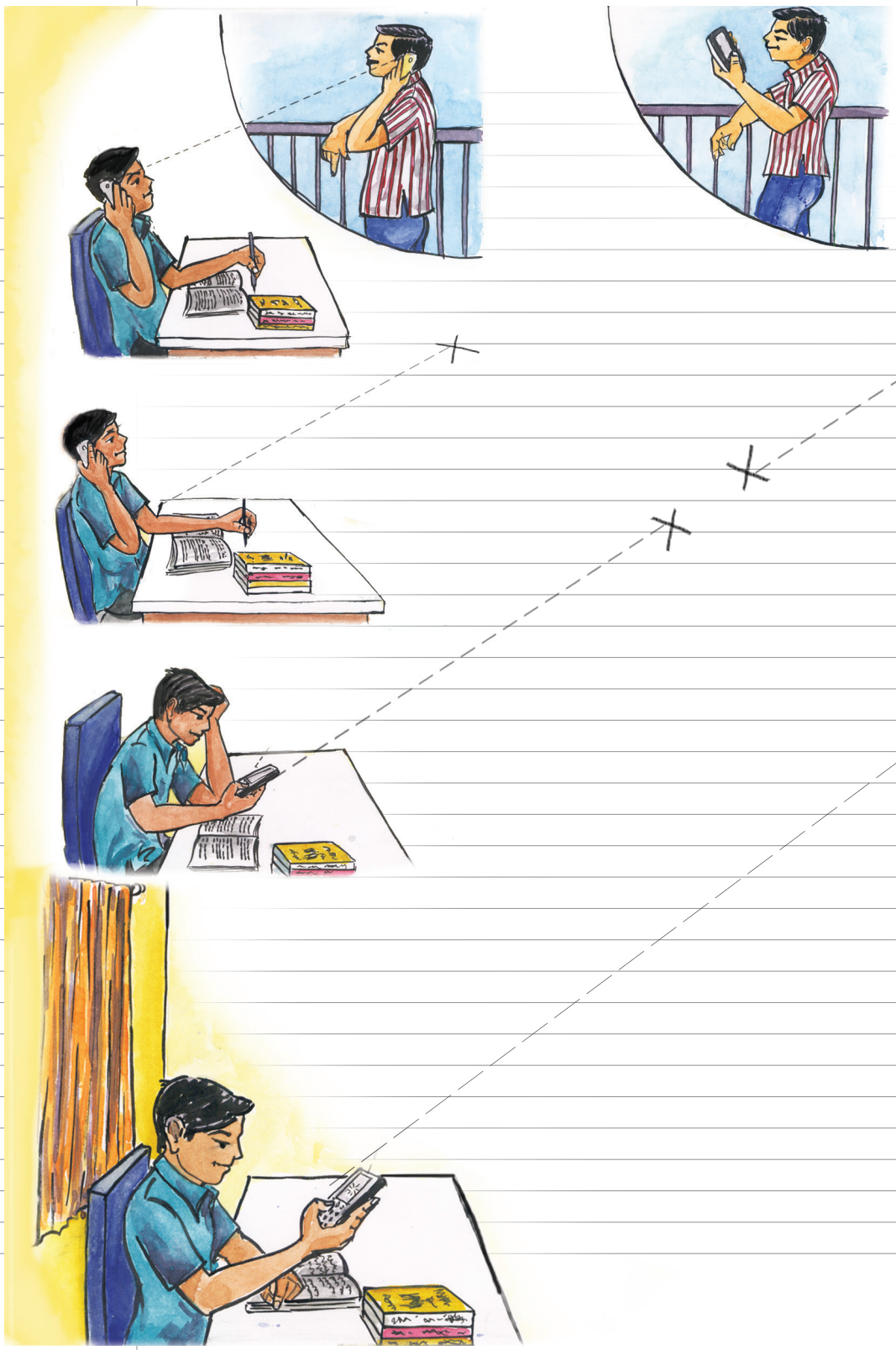
Inclined installation of water taps at schools and other public places

Chhaya Sambhoji Thakor, Class 7, Vidhyadham Boru Primary School, Gandhinagar, Gujarat

In almost all the schools, water taps are at the same height from the ground. Taller and shorter children have to face discomfort in drinking water. Chhaya's idea is to have taps arranged at an incline instead of present horizontal arrangement so that a student can use the tap suitable as per his/ her height.

Chhaya has a lot of interest in studying English, painting, making Mehandi designs and playing Kho-Kho. Her idea was implemented by her school, Vidhyadham Boru Primary School. She wants to become a scientist and solve problems of our society.





Mobile app for mutual calling intimation

Jenish Shah, Class 8, Tapti Valley International School, Surat, Gujarat

Many a time when a call gets disconnected, the two phone users start calling the other person. As a result the phone remains busy and the call does not go through. Jenish's idea is to have a mobile app, which intimates the other person that the first person is calling and s/he need not dial back.

The idea struck Jenish while preparing for his science project one night. It was late and he was on call with his friend. Once the call got disconnected due to network congestion, both persistently kept on trying to call each other and thus lost much time. He thought if such a situation arose during an emergency, problems may arise and came up with this idea.

Good in studies, Jenish likes sports as well. Technology especially robotics interests him a lot. He already speaks four languages and is learning German and French. He wants to grow up to become a knowledgeable person.

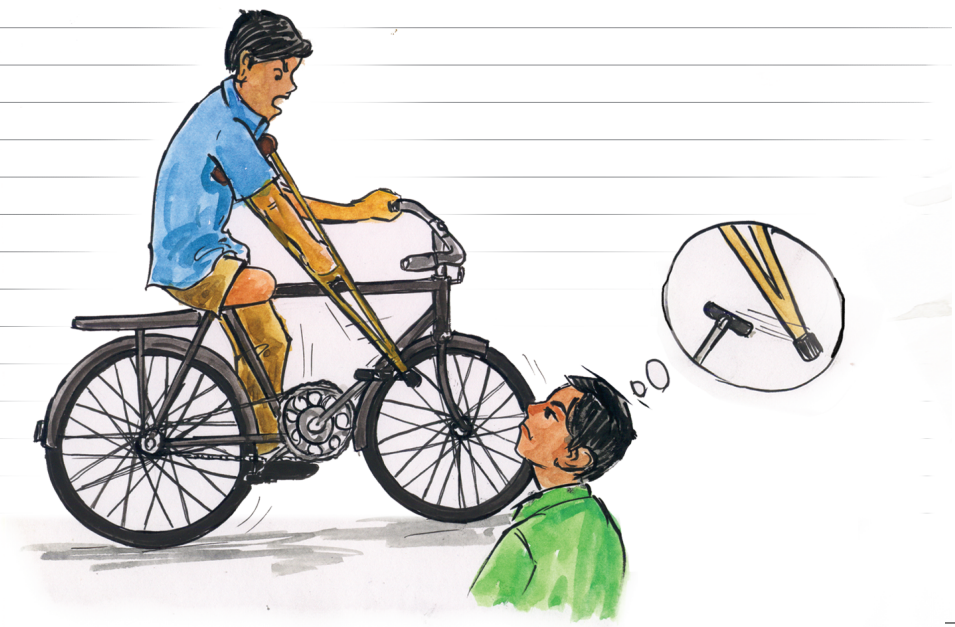
Detachable device for the bicycle enabling user to ride with one leg

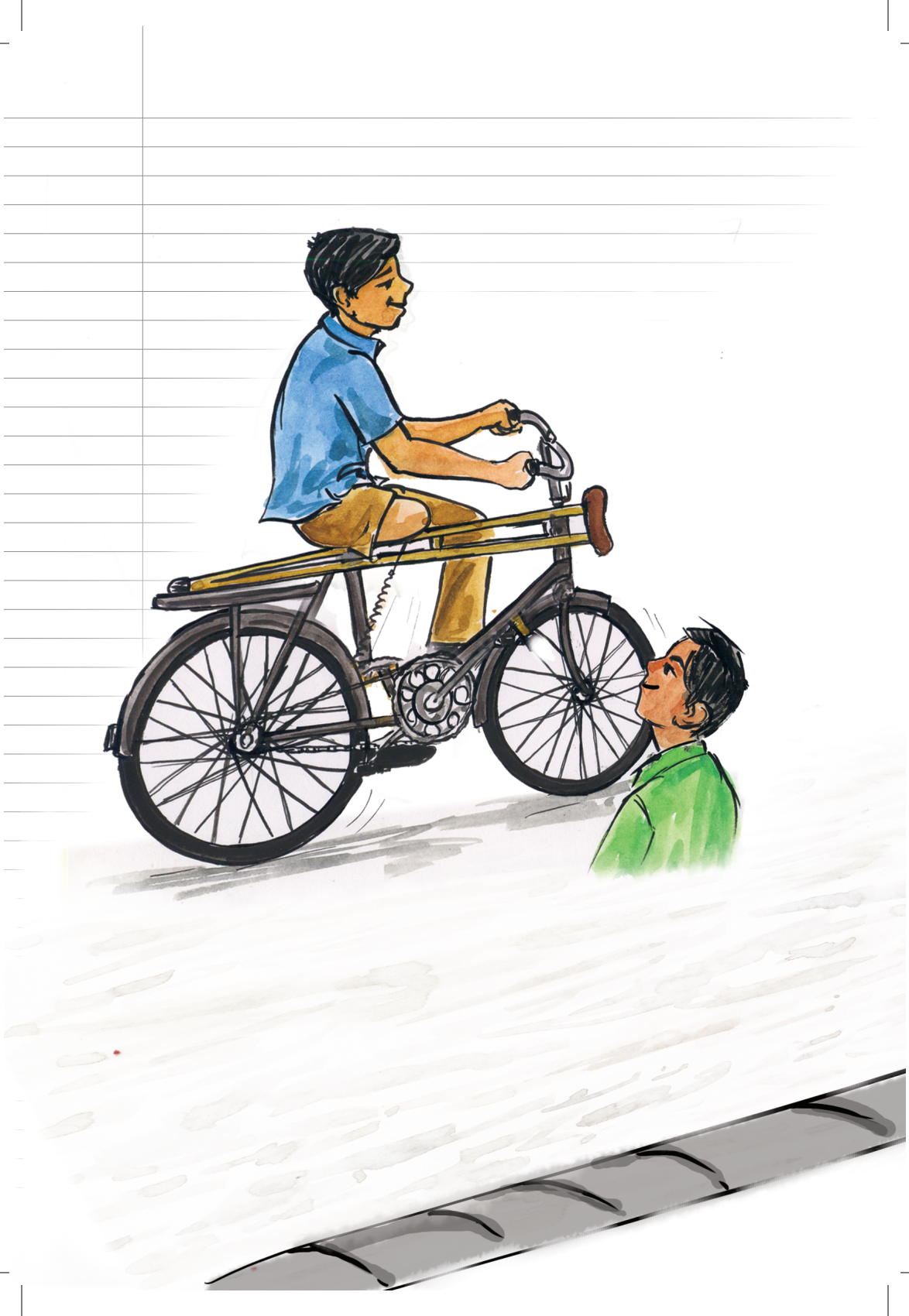
Shubh Dholakiya, Class 8, Shree G.K Dholakia High School (Eng.), Rajkot, Gujarat

This is a retro fitting device, which when attached to the crank set of a bicycle, can enable the user to ride the bicycle using one leg.

Shubh got the idea to develop this device while watching a physically challenged person driving a car. With bicycles being the most common medium for travel and cars being not accessible to everyone, he thought of modifying the bicycle for the purpose.

A keen observer, Shubh likes to know all the new things happening around. He likes to read books, play cricket and make craft items. He aspires to become an aeronautical engineer.



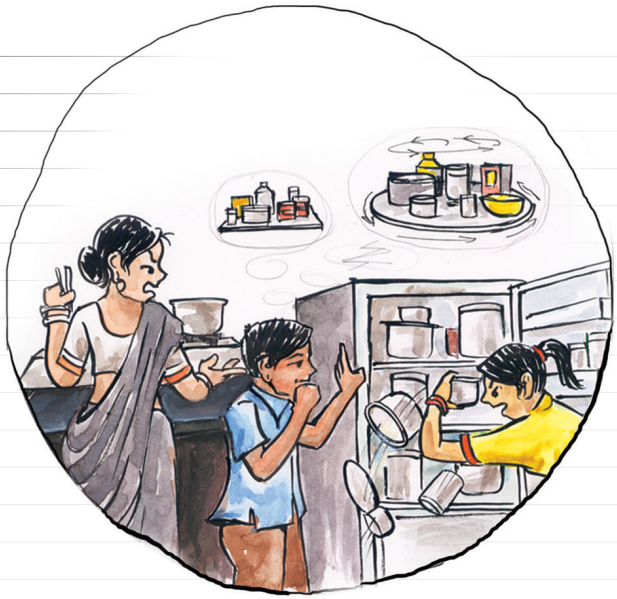


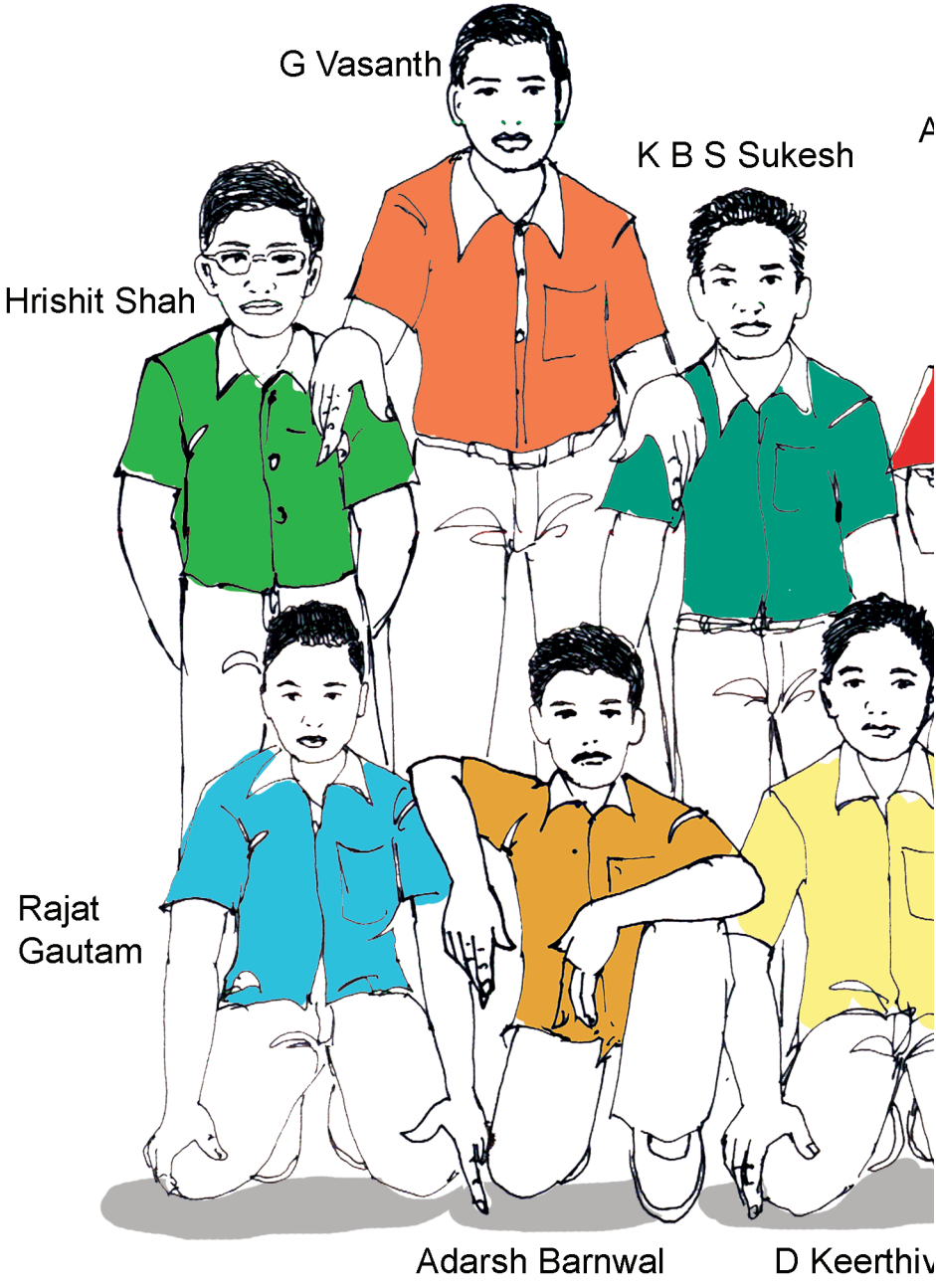
Cylindrical shaped refrigerator with rotatory trays

Sarthak Shukla, Class 8, Indirapuram Public School, Ghaziabad, Uttar Pradesh

To take out food items kept at the back side of the tray in a refrigerator, one first has to take out things kept in the front. This triggered the idea of a cylindrical refrigerator where the trays can be rotated for easy access of the items kept at the back.

In addition to his regular studies, Sarthak likes extra co curricular activities as well. He reads books, play football and badminton, participates in essay competition, debates, etc. He wants to pursue research in the field of defense related devices and become a scientist.




G Vasanth
K B S Sukesh
Hrishit Shah
Rajat
Gautam
Adarsh Barnwal
D Keerthiv


Ananya Jain
Akanksha Guha
Sharvari Tambat
Mukul Malviya
thivasan
Diptanshu Malviya

All in one stapler (for all size of pins)

G. Vasanth and D. Keerthivasan, Class 9, Government Boys Higher Secondary School, Thiruvarur, Tamil Nadu

Their idea is to have a stapler, which can accommodate pins of different sizes and hence eliminate the need to have different staplers.

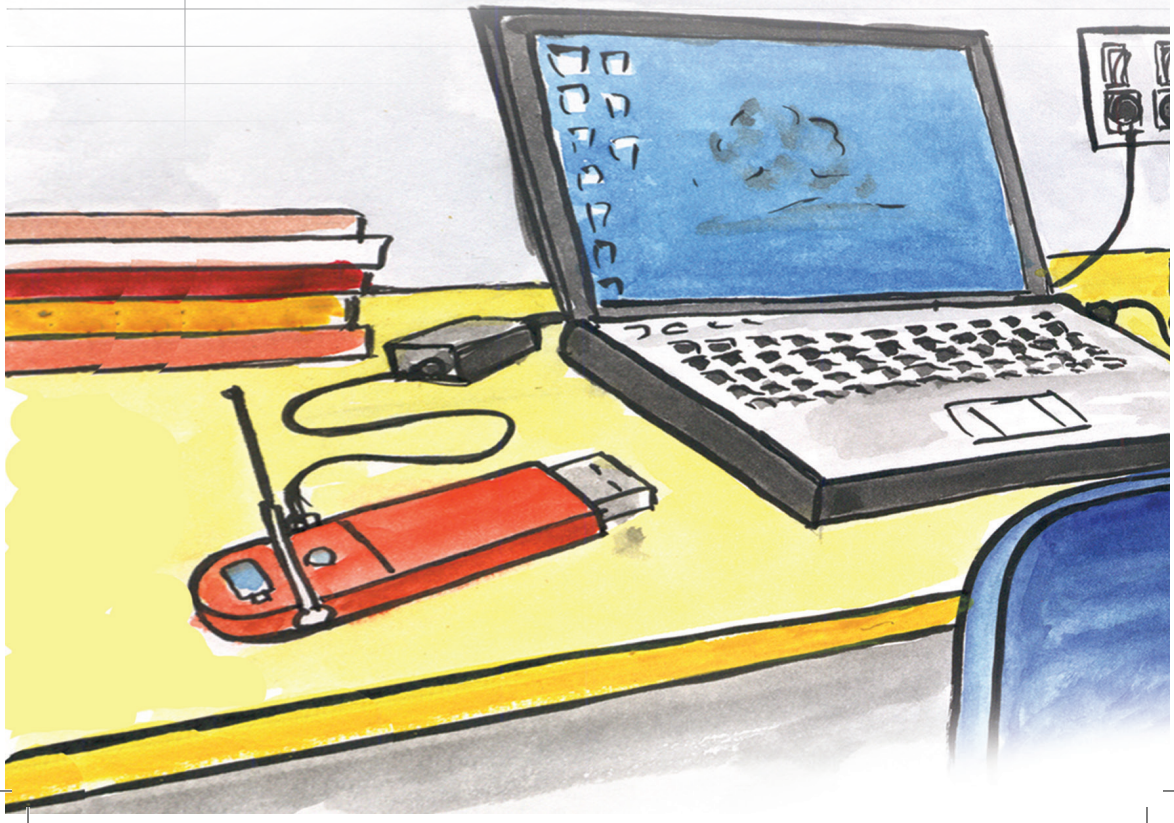
Vasanth likes gardening and playing with motors and dynamos. His friend Keerthivasan likes to indulge in drawing and painting. While Vasanth wants to become an engineer Keerthivasan wants to become an artist.

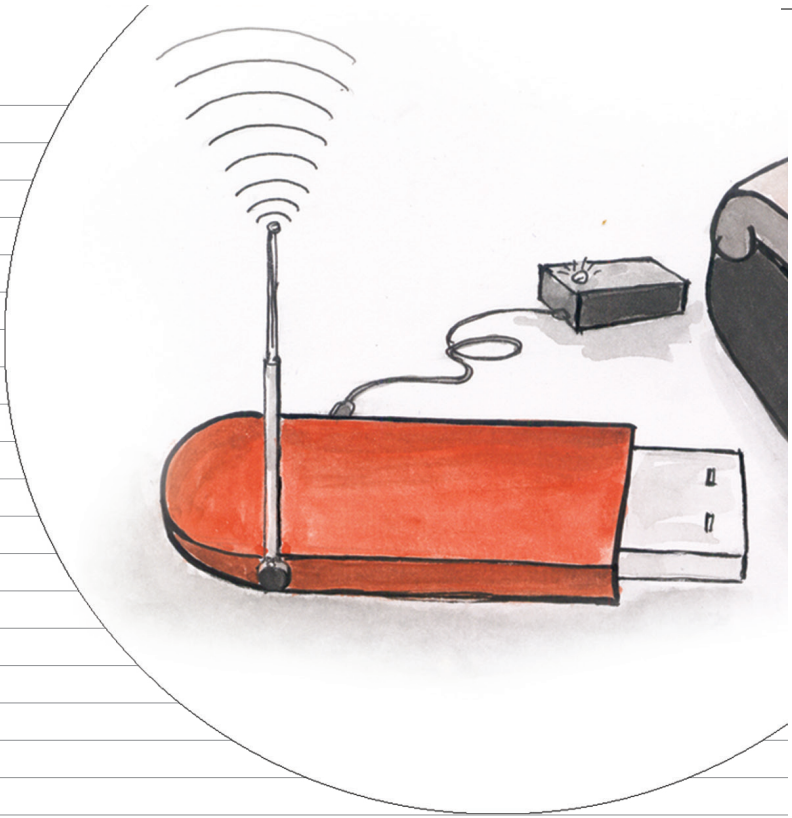
Portable wi-fi dongle with rechargeable batteries

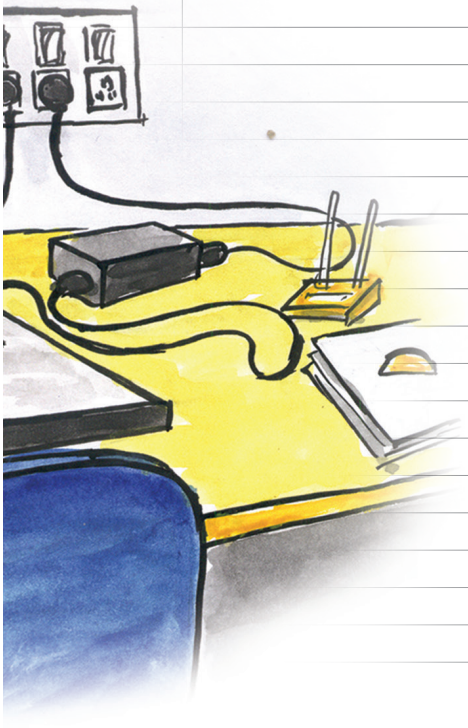
Hrishit Shah, Class 9, Navrachana School, Vadodara, Gujarat

Normally wi-fi dongles use power from an electric source or device like laptop to which they are attached. The idea is to have a self-powered (using rechargeable batteries) wi-fi dongle to create a wi-fi zone at any place.

Facing connectivity issues at his home, Hrishit came up with this device. He likes playing cricket and is undecided about what he would do further in life. A self-professed lazy individual, Hrishit, likes to lay back and think of ideas that can make life easier.







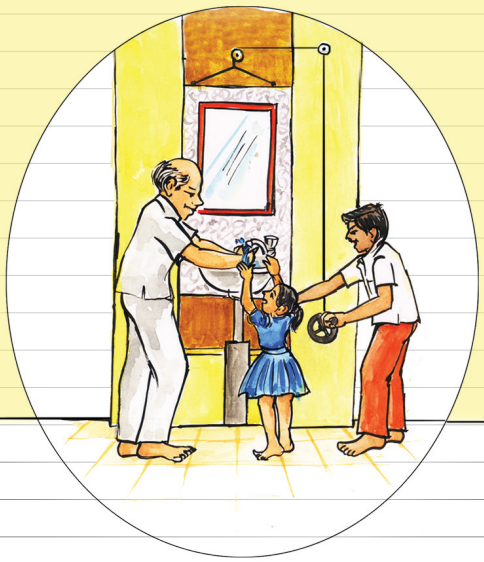
Height adjustable wash basin

Akanksha Guha, Class 10, Army Public School, Pauri Garhwal, Uttarakhand

The idea is to have the entire wash basin, drain and mirror assembly vertically adjustable so that people of different heights can easily use it without any problem.

Akansha's father had a lot of discomfort bending forward and using the basin when he had a spine inquiry. She noticed this and recalled that she also faced a lot of problem as a young child trying to reach the basin at a higher level.

Her hobbies include reading fiction, adventure and mystery stories and books, playing synthesizer and quilling (kind of paper art). She wants to pursue a career in computer science.



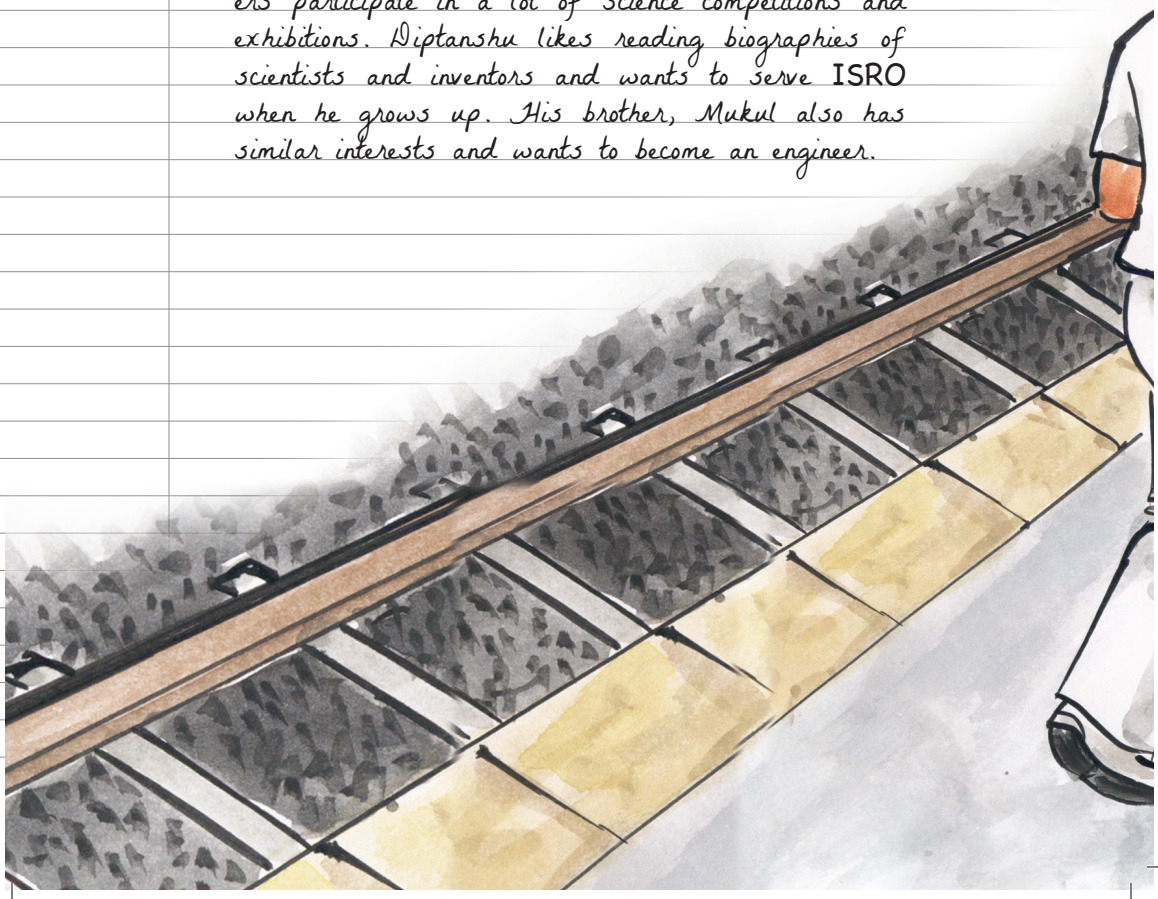
Wrapper picker

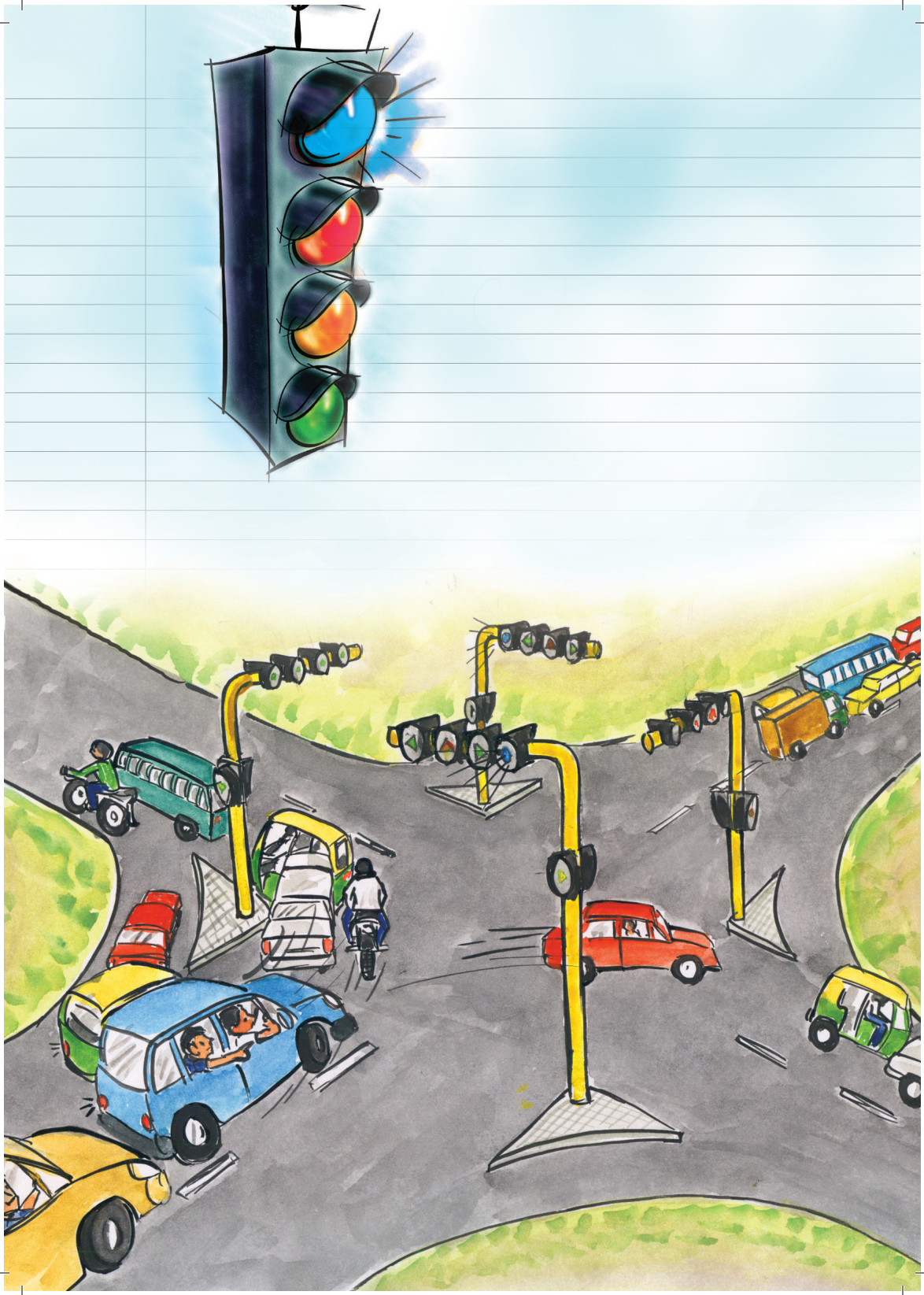
Diptanshu Malviya and Mukul Malviya, Class 9 & 12, St. Paul's Sr. Sec School, Sirohi, Rajasthan

This is a motorized device, which picks up littered pieces of wrappers, papers, pouches, etc., and collects them in a storage bin.

The brothers thought about this device when they saw a sweeper picking up waste pouches/ paper littered across a bus station. They realised how difficult it must be for him to bend every time to pick up such pieces.

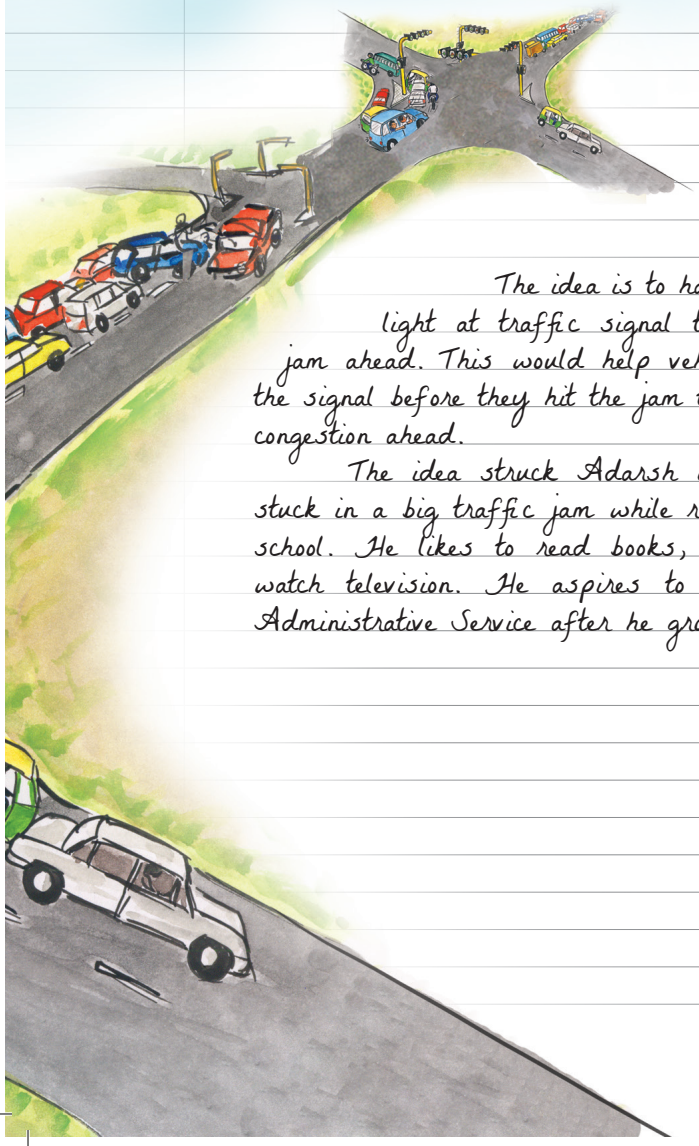
With keen interest in science, both the brothers participate in a lot of science competitions and exhibitions. Diptanshu likes reading biographies of scientists and inventors and wants to serve ISRO when he grows up. His brother, Mukul also has similar interests and wants to become an engineer.





Provision of fourth (blue) light to reduce traffic jams

Adarsh Barnwal, Class 10, Ramkrishna Mission Vidyamandir, Katihar, Bihar



The idea is to have a fourth (blue) light at traffic signal to indicate traffic jam ahead. This would help vehicles to divert at the signal before they hit the jam thereby easing the congestion ahead.

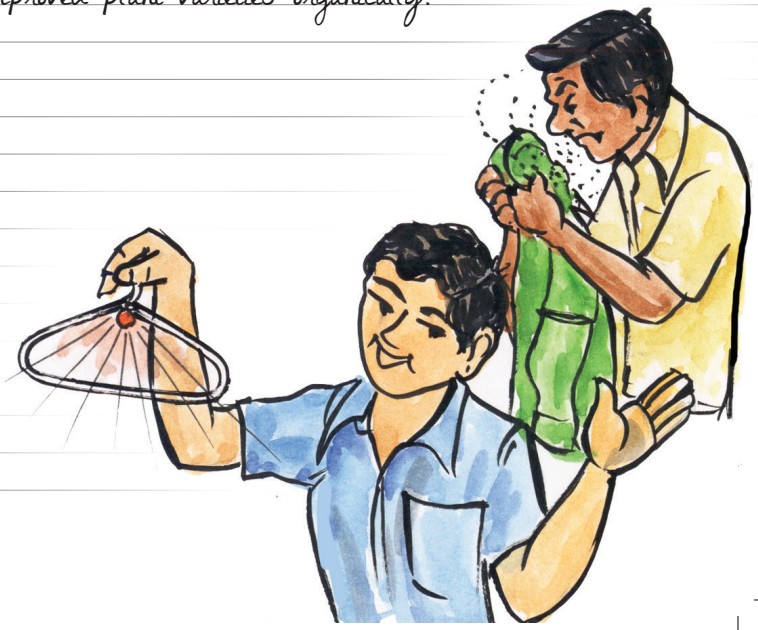
The idea struck Adarsh once when he got stuck in a big traffic jam while returning from his school. He likes to read books, play cricket and watch television. He aspires to join the Indian Administrative Service after he grows up.

Hygienic cloth hanger

K.B.S Sukesh, Class 10, ST. Mary's Public School, Nellore, Andhra Pradesh | Rajat Gautam, Class 12, Bakshi's Springdales Sr Sec. School, Kota, Rajasthan

The idea is to have a cloth hanger, which would release UV or any other germicidal rays that will kill bacteria keeping our clothes always fresh & germ free.

Sukesh likes to read books and play cricket. He wants to be a scientist and serve the nation. Rajat suggests having a dryer as well to keep clothes dry and germ free. He thought of this idea after visiting a hospital and realised the need to have germ free clothes to prevent the spread of infection. He likes gardening, reading science books and undertaking science based projects, learning new technologies, listening to songs and surfing internet. He wants to become an agriculture scientist and develop improved plant varieties organically.



Microphone that adjusts the volume according to user's voice

Sharvari Tambat, Class 10, Wisdom High International School, Nashik, Maharashtra

The idea is to have a microphone that automatically adjusts up/down the sound output of our voice to a preset decibel level. This is to say that whether one speaks softly or loudly, the audience would hear at a uniform sound level.

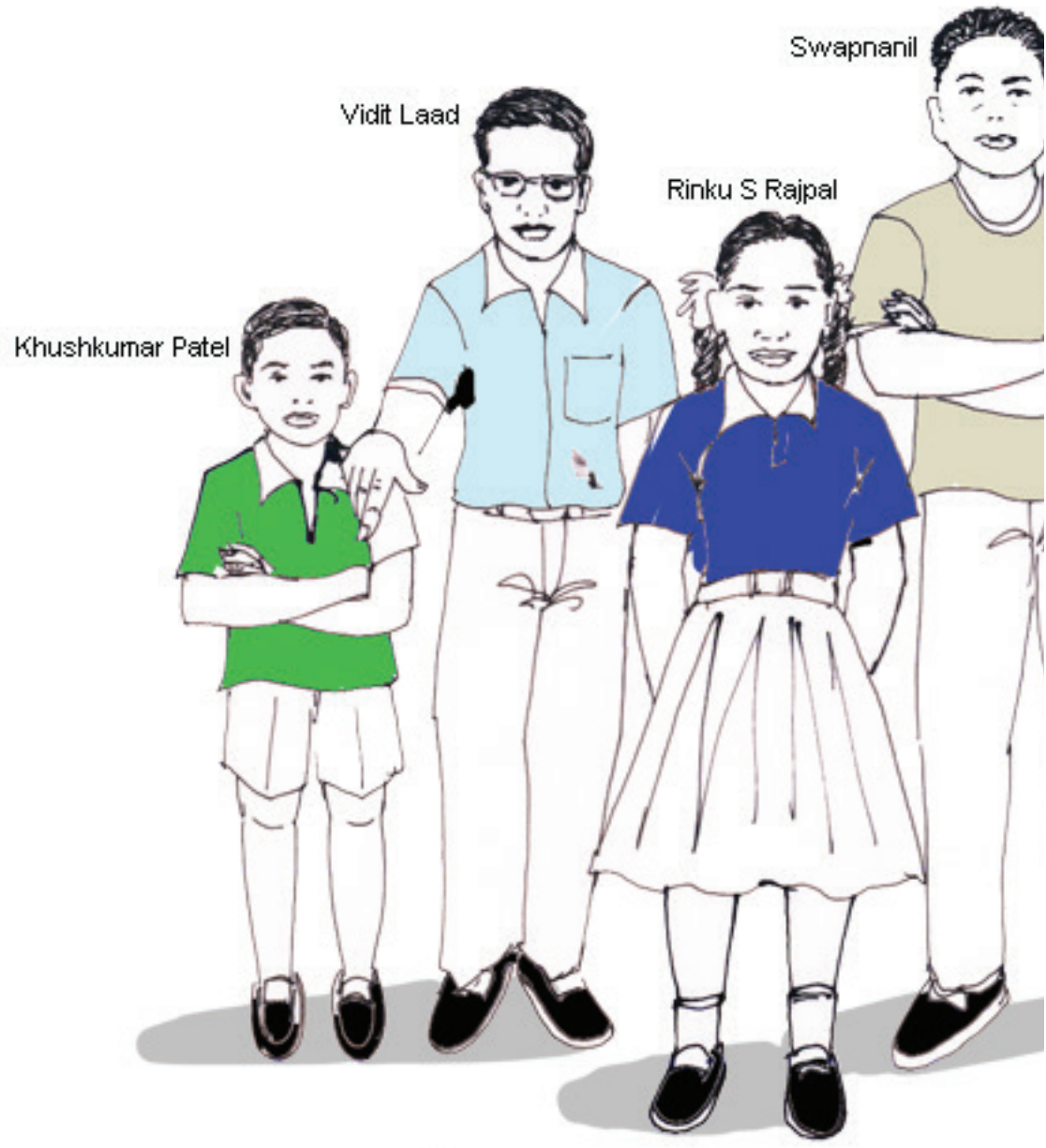
This idea struck her when Sharvari attended a stage program where she found some artists too loud and some too soft to follow. She has a keen sense of observation and likes to analyse problems and solve them. She is member of MENSA India, a society of people having high IQ and wants to train as a psychologist. She has been learning Kathak for over a decade and doing stage shows as well.

Bio-fertiliser from cockroaches

Ananya Jain, Class 10, Carmel Convent School, Chandigarh

In this experimental setup, better growth of potted plants was observed where cockroach excreta was used as fertiliser.

This idea struck Ananya when one day her friends were complaining about the cockroach problem in their homes. She then wondered whether this pest could be used for productive purposes and then carried out this experiment. Reading books is Ananya's favorite past time. She plays tennis and soccer and also plays guitar. She wants to grow up as a good human being and inspire others too!


Swapnanil
Vidit Laad
Rinku S Rajpal
Khushkumar Patel


Preyansh
Kotecha
Karan
Khatri
Yash Vardhan
Goenka

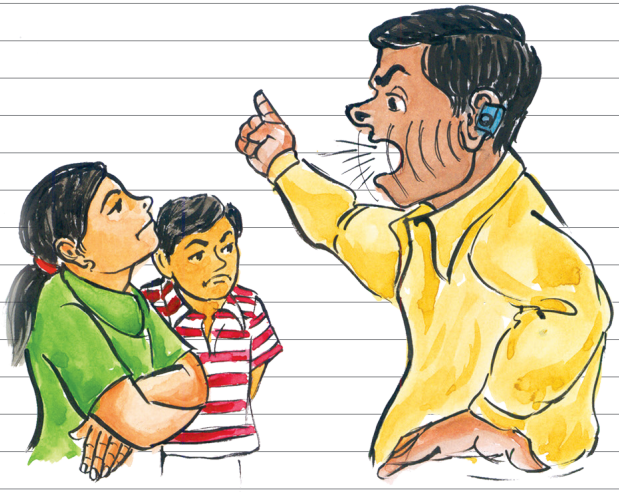
Foot operated manual page turning machine

Swapnanil Talukdar, Class 11, Maharishi Vidya Mandir, Guwahati, Assam

This is a lower limb operated manual device to assist upper limb impaired or those which an injury to turn/flip the pages of books easily.

This idea originated out of his own laziness. Once after his tuition class, Swapnanil felt too tired to even turn pages of his text book. He then thought of this idea and later realised that it could be used by many other physically disadvantaged persons as well.

A foodie, he likes travelling to scenic places, gardening, watching science based programs and dancing. He is a philatelist with a collection of over 1000 stamps. He wants to become a chemistry or a physics professor and promote 'out-of-the-box' thinking in his students.



Voice modulation system

Rinku S Rajpal, Class 12, Adani Vidya Mandir, Ahmedabad, Gujarat

The idea is to have a voice modulation system that can be fixed near our mouth and neck so that if we speak loudly beyond a certain level in anger (or shout) then it pinches our ears, bringing our voice back to the normal.

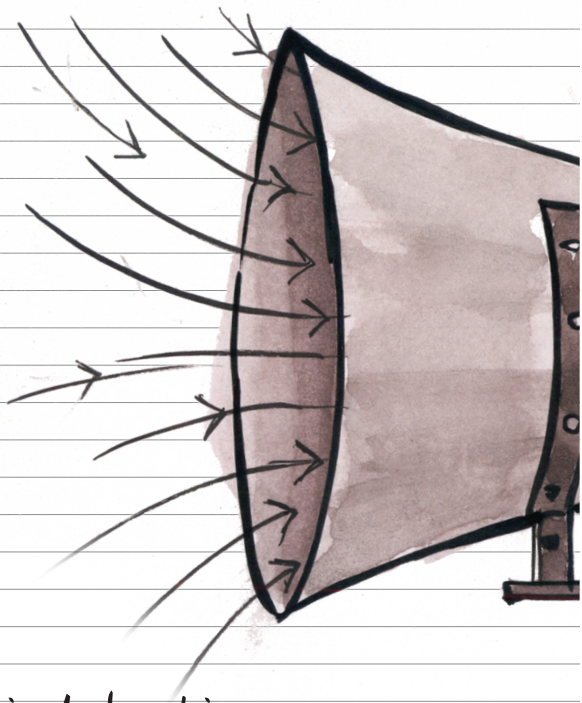
Rinku used to get irritated by people who talked loudly always so she thought if there can be any such device that could help them regulate their voice. She is a national level chess player and her hobbies range from reading books, photography, singing, dancing to travelling, skating, sketching and drawing. Biology is one subject, which she really likes and wants to take up medicine as her profession.

Movable seat for physically disabled in cars

Khushkumar Patel, Class 12, Nutan Vidya Vihar Higher Secondary School, Ahmedabad, Gujarat

The idea is to have movable seats in four-wheelers so that they can be rotated on their axis and pulled outside. Person can then sit on it easily, push the seat inside and rotate back to the normal position. Such a seat may be useful for a physically disabled person or an obese person.

Khushkumar has keen interest in new and emerging technologies and wants to join IIT after his class 12. Spiritualism also appeals to him a lot. He reads biographies and plays football. He plays softball at the national level and baseball at the state level. He participates in a number of science and technology based events.

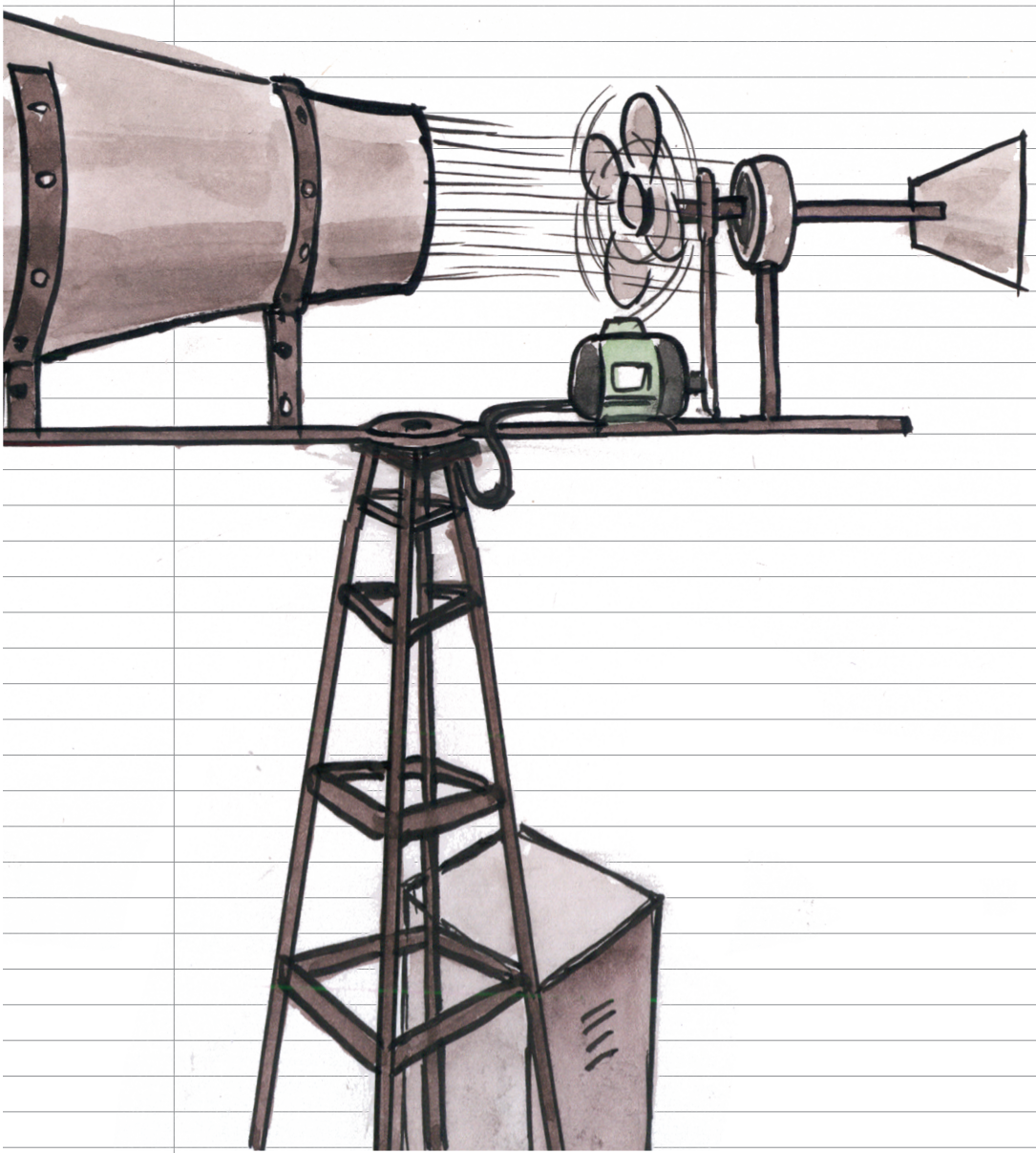


Advance wind turbine

Vidit Laad, Class 12, Lokmanya Vidya Niketan, Indore, Madhya Pradesh

It is an omni-directional windmill, which has a wind concentrator to increase wind speed. It is claimed to work at low cut-in speed as well.

Vidit has always had interest in non-conventional sources of energy. He came up with the idea of this windmill while reading his physics text book. He has a habit of doing experiments and trying out things practically. He likes playing outdoor sports to keep him healthy and stress free. He wants to become a defense scientist to develop arms for the nation.



Improved batteries with fast charging

Yash Vardhan Goenka, Class 12, Calcutta International School, Kolkata, West Bengal

The project involves developing batteries, which can be easily charged at a much faster rate than the conventional ones by using super capacitors having fast charge/ discharge rate and high charge density.

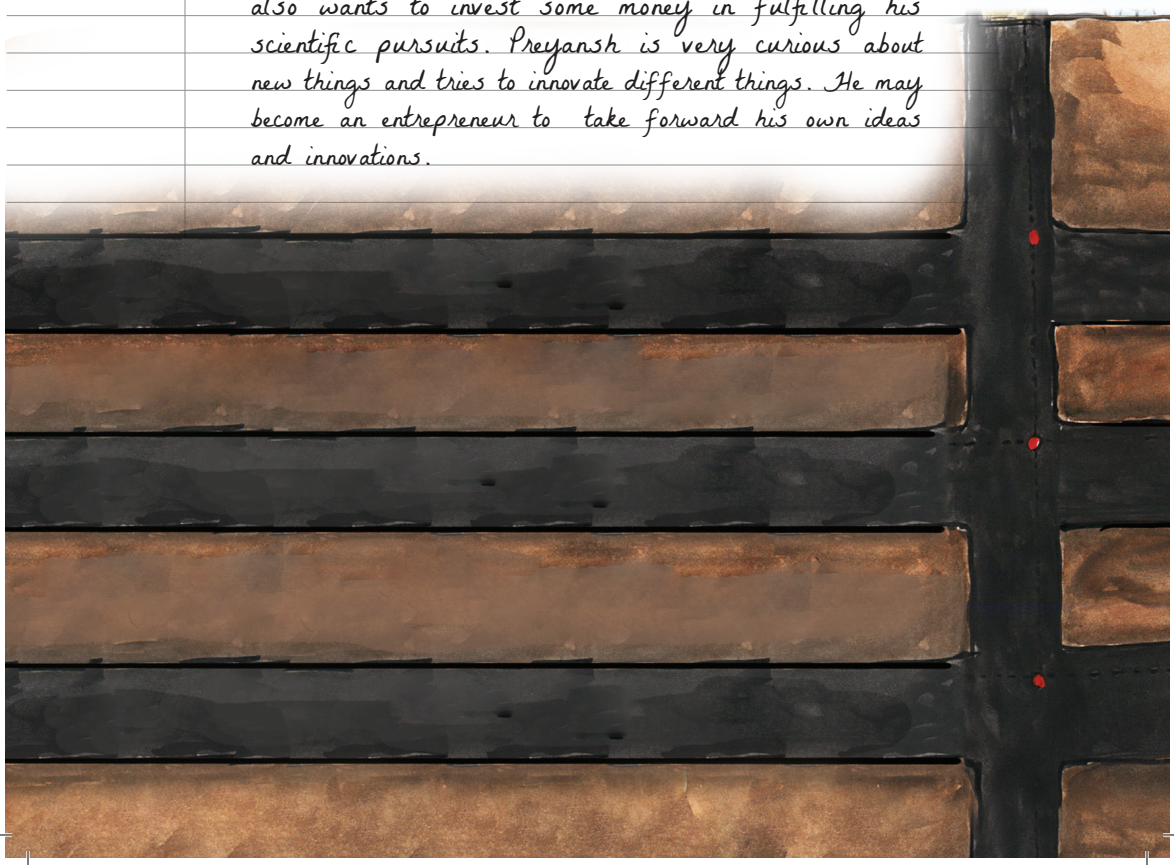
The idea came to Yash's mind while staying at his grandparents' place where electricity would come for an hour or so; not even sufficient time for an inverter to get charged. Yash is an ardent technology follower. His interests range from neutrinos to graphene to spacecrafts and stellar space. He also enjoys trekking, travelling and painting. He wants to become an engineer with a keen sense of design and entrepreneurship. Yash also wants to invent solutions for a better life all around.

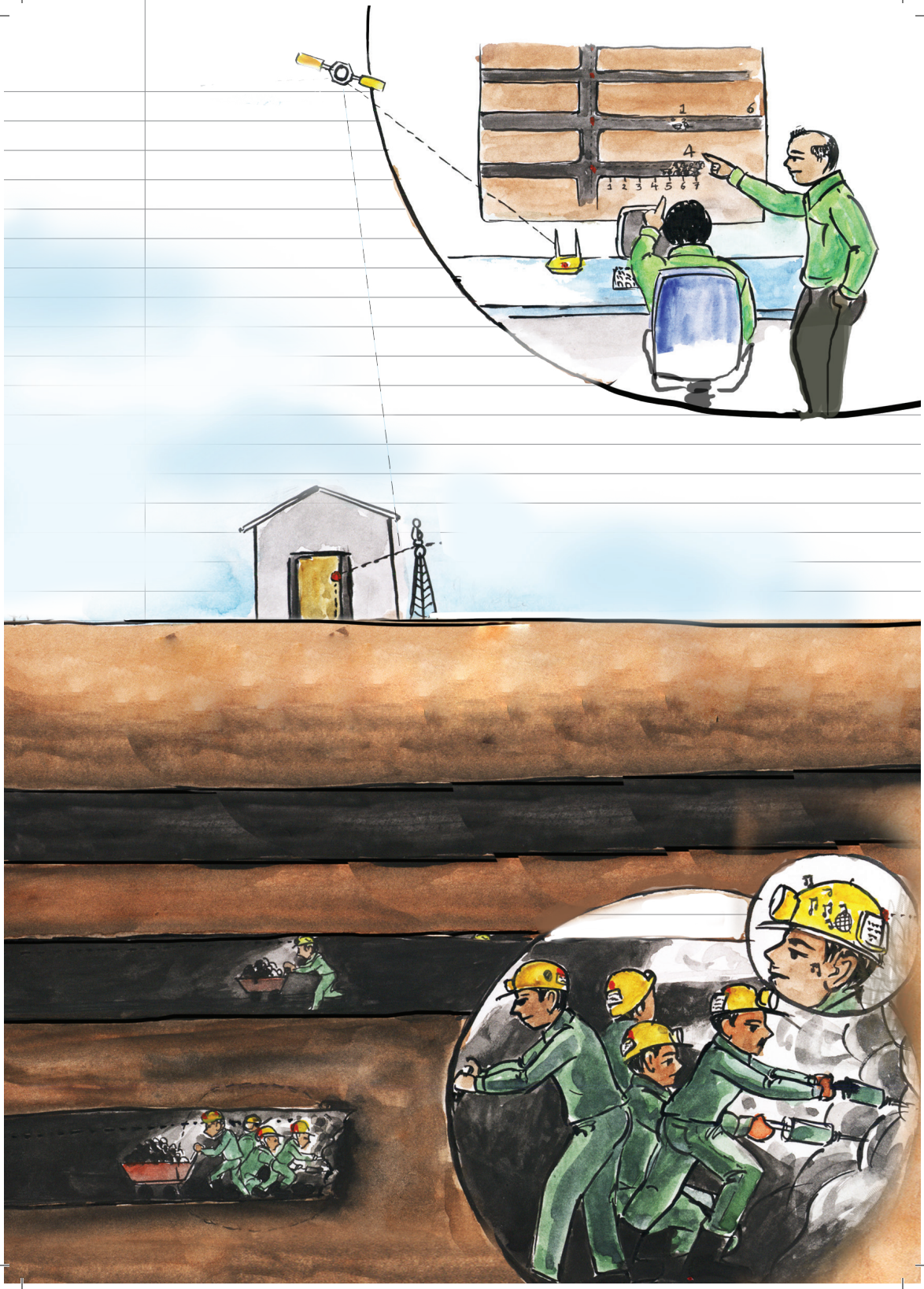
Advance helmet for mine workers

Preyansh Kotecha and Karan Khatri, Class 12 & 11, Anand Vidya Vihar, Vadodara, Gujarat

The idea is to have a helmet for mine workers, using which their location inside the mine can be identified. The same can also be used for communication purpose if required.

Frequent news about accidents in mines and loss of the lives of the miners prompted the two friends to think about the problem and come up with this helmet. Karan has a passion for photography and football. He loves to make new friends and explore new places. Like his father, he wants to be a businessman but also wants to invest some money in fulfilling his scientific pursuits. Preyansh is very curious about new things and tries to innovate different things. He may become an entrepreneur to take forward his own ideas and innovations.

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There are many other variations of these simple innovations. Should we ignore them....because they are simple

simple?

Is simple always sustainable ?

National Innovation Foundation

nif

towards
an innovative
India

National Innovation Foundation is pursuing the mission of making india Innovative and a global leader in sustainable technologies. The idea is to build upon Honey Bee philosophy, and provide a nurturing platform to unsung heroes and heroines of our society who have solved a technological problem through their own genius without any outside help.
The Department of Science and Technology of Government of India has established National Innovation Foundationin March 2000. The purpose is scouting, documenting, spawning, augmenting, adding value, protecting intellectual property rights, disseminating on commercial as well as noncommercial basis. Focus is on the contemporary unaided technological innovations as well as outstanding examples of traditional knowledge from individual and communities.

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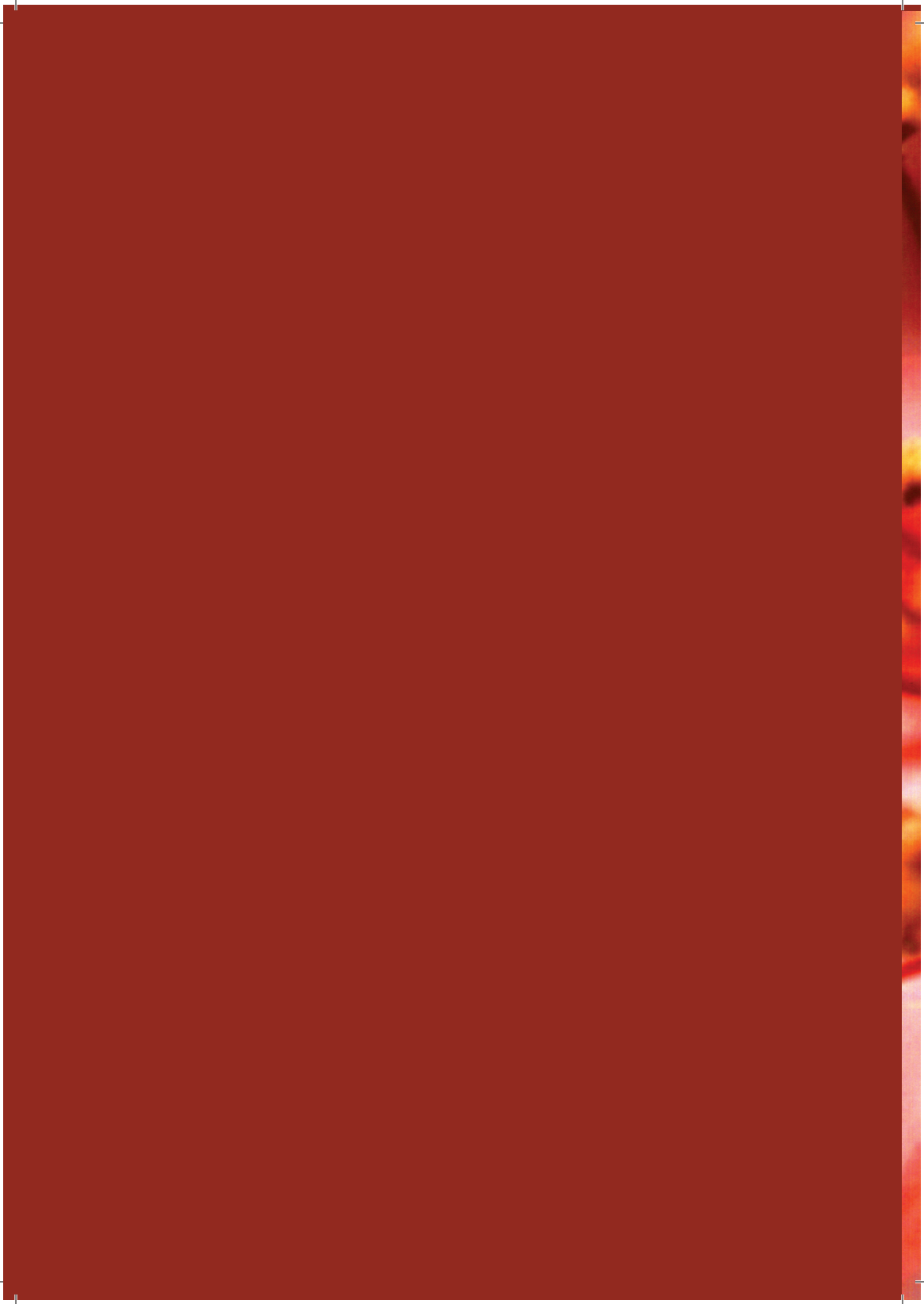


Honey Bee Network

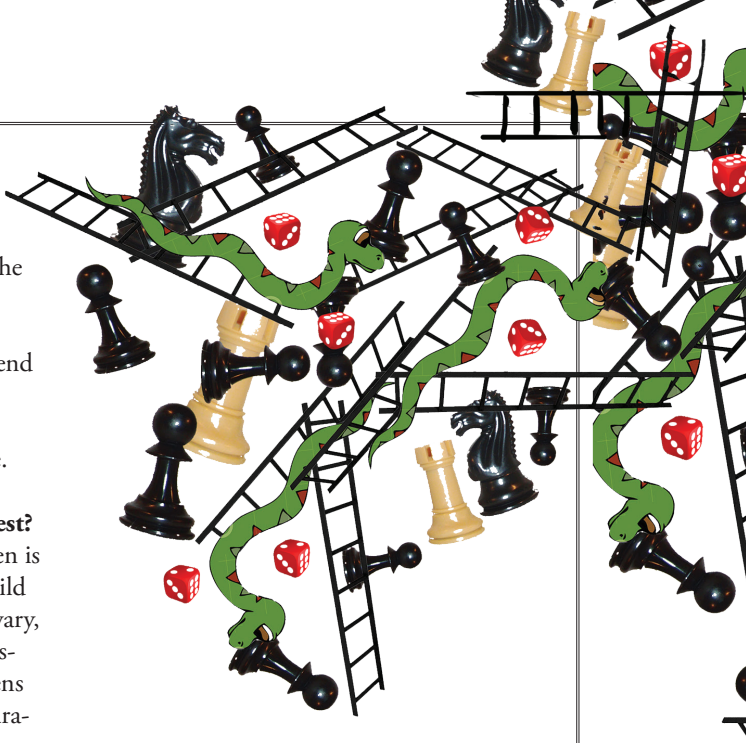
Honey Bee

the philosophy

Honey Bee is a metaphor indicating ethical as well as professional values. Cross-cultural fertilization of ideas, innovations and initiatives to build a knowledge network is one of the fundamental tenets of the Honey Bee Network. Collaborative efforts of Honey Bee Network members during the last 14 years in carrying out the documentation of people's knowledge systems have been pursued on the basis of following principles:

- Whatever is learnt from people must be shared with them in their own language so that people to people connections can be made and they can validate our understanding of their creativity.
- All practices/innovations must be identified by the names and addresses of the individuals/communities in order to acknowledge their contribution and pursue protection of IPRs of grassroots innovators.
- Whatever gains are made by those who document or add value to the local knowledge, innovations or practices should be shared with the providers of knowledge and others who have contributed to value addition in a fair and equitable manner.


ignite 2014



What is the IGNITE contest?
IGNITE is a national competition to harness the creative and innovative spirit of school children. Students are invited to send their original technological ideas and innovations for the same.

Why the IGNITE contest?
Creativity among children is almost in-born, every child is creative, degrees may vary, but not the basic manifestation. Then what happens during growth and maturation? Why should children stop asking basic questions? Why do they agree to do repetitive science projects instead of being original? Why do they learn to live with unsolved social and professional problems? We should not allow our children to live with such problems rather urge them to come up with solutions to these. We want to promote originality, creativity and innovative spirit among our children so that when they become leaders of our society, they ensure an imaginative, inclusive and an innovative future for the country. We want our children to be more sensitive to the problems faced by not just them and their families or neighbors but also other socially disadvantaged sections of the society.

The IGNITE '14 contest (September 1, 2013 to August 31, 2014) saw participation of students from 359 districts of 35 States and Union Territories of the country with 27123 entries being received. The awards were announced on October 15th, the birth day of children's favorite Dr A.P.J. Abdul Kalam, celebrated as the Children's Creativity and Innovation Day by NIF. These were given by Dr. Kalam on November 19th, 2014 at IIM Ahmedabad.

dst.gov.in gian.org honeybee.org sristi.org cbse.nic.in