

		School Details	Results	
Group	Group	Name of School		Confirmed
A	1	Evergreen Primary	Bronze	Food Energy!
A	2	Greendale Primary	Gold (Presentation)	Wearing dry-fit ke
A	3	Marsiling Primary	COC	Assessing and ev
A	4	North Spring Primary	Silver	Investigating the I
A	5	Northoaks Primary	COC	Multi-purpose Out
A	6	Peiyong Primary School	Bronze	Colourful heat
A	7	Peiyong Primary School	Bronze	Coastal Saviour
A	8	Rosyth School	COC	Eggiegvengers: I
A	9	Rosyth School	COC	Teeth Experiment
A	10	Sembawang Primary	COC	A simulated study
A	11	Woodlands Ring	COC	EFFECTS OF DIR
A	12	Woodlands Ring	Gold	Water-saving Soi
A	13	Xishan Primary School	Silver	Water from thin a
B	1	Edgefield Primary	COC	Sugary Sugary Dr
B	2	Edgefield Primary	Gold (presentation)	Keeping Cool to S
B	3	Evergreen Primary	COC	Cool Curtain Cold
B	4	Greendale Primary	COC	Say No! to Single
B	5	Hougang Primary	Gold	Vege-straw
B	6	Marsiling Primary	Bronze	Zero/Hero: A case
B	7	North Vista Primary	COC	A comparison of c
B	8	Northoaks Primary	Silver	The New Generat
B	9	Sembawang Primary	Bronze	Assessing alterna
B	10	Woodgrove Primary	COC	Bioplastics for Fe
B	11	Woodgrove Primary	COC	Bubble Bonanza
B	12	Xishan Primary School	Bronze	Mindfulness: A to
B	13	Yio Chu Kang Primary	Silver	Natural cures to f
B	14	Yishun Primary School	COC	Effects of Sound c
B	15	Mee Toh School	COC	Eco-friendly air co
C	1	Edgefield Primary	COC	How pure is Dasa
C	2	Endeavour Primary	Bronze	Amazing Worms!
C	3	Evergreen Primary	COC	Keeping You Cool
C	4	Hougang Primary	Gold	Fuel your Waste
C	5	Huamin Primary	COC	Lactose-free Ice C
C	6	Marsiling Primary	COC	Hybrid green ene
C	7	North Spring Primary	COC	Which Type of Pla
C	8	North Vista Primary	COC	Effectiveness of a
C	9	Peiyong Primary School	Silver	Too hot to handle
C	10	Seng Kang Primary	COC	Cleanliness Is In T
C	11	Woodgrove Primary	COC	Best Natural Grea
C	12	Woodlands Ring	Silver	Towards Zero Fo
C	13	Yio Chu Kang Primary	Gold	Friendly Bioplastic
C	14	Yio Chu Kang Primary	Bronze	Making recycled p
C	15	Yishun Primary School	Bronze	Potato Power
C	16	Mee Toh School	COC	The food insulato

D	1	Anderson Secondary School	Bronze	Effect of Deeper C
D	2	Ahmad Ibrahim Secondary School	COC	Effect of different
D	3	Bowen Secondary School	COC	To investigate if b
D	4	Christ Church Secondary School	COC	Smart Window Cl
D	5	Chung Cheng High School (Yishun)	COC	Beverage Cooler
D	6	Deyi Secondary School	Gold	Investigation on th
D	7	Nan Chiau High School	Silver	Investigation of th
D	8	Northbrooks secondary	Bronze	Freasy (Free & Ea
D	9	Orchid Park Secondary School	Bronze	Using used tea le
D	10	Presbyterian High School	Gold	Investigating the u
D	11	Sembawang Secondary School	COC	To investigate wh
D	12	Serangoon Secondary School	COC	Investigation on th
D	13	Woodlands Ring Secondary School	Silver	Determining the e
D	14	Ang Mo Kio Secondary School	COC	Effect of Different
E	1	Anderson Secondary School	COC	To investigate glu
E	2	Ahmad Ibrahim Secondary School	COC	Experimenting wit
E	3	CHIJ St Nicholas Girls' School (Secondary)	COC	Using Fruit Peels
E	4	Compassvale Secondary School	Gold	Investigating the a
E	5	Evergreen Secondary School	Bronze	Do sunscreens of
E	6	Nguyen Tat Thanh lower and upper Secondary School, Hanoi, Vietnam	Bronze	HOUSEHOLD B
E	7	Northbrooks Secondary School	Silver	Investigating the a
E	9	Riverside Secondary School	COC	Is organic food re
E	10	Sembawang Secondary School	Silver	To investigate the
E	11	Singapore Chinese Girls' School	COC	Investigation of C
E	12	Woodlands Ring Secondary School	Gold	Optimizing the ret
E	13	Ang Mo Kio Secondary School	Bronze	Effect of Type of I
F	1	Anderson Secondary School	Silver	The effect of glos
F	2	Bowen Secondary School	COC	Let's Kill the Bact
F	3	CHIJ St Nicholas Girls' School (Secondary)	COC	Comparing sugar

F	4	Christ Church Secondary School	Silver	Project Hoshi
F	5	Compassvale Secondary School	COC	Investigation into
F	6	Evergreen Secondary School	COC	Prolonging food fr
F	7	Nguyen Tat Thanh lower and upper Secondary School, Hanoi, Vietnam	Gold (presentation)	DESIGN OF A M
F	8	Orchid Park Secondary School	COC	Does light actually
F	9	Pei Hwa Secondary School	Gold	Testing Low-Cost
F	10	Riverside Secondary School	COC	How do different t
F	11	Sembawang Secondary School	Bronze	Hair Nourishment
F	12	Vinschool	Bronze	STUDY ON GEN
F	13	Woodlands Ring Secondary School	COC	Using food waste
F	14	Singapore Chinese Girls' School	Bronze	Testing the effect
G	1	Ahmad Ibrahim Secondary School	COC	Effect of different
G	2	Bowen Secondary School	COC	Which Diaper is t
G	3	CHIJ St Nicholas Girls' School (Secondary)	Bronze	Investigating the B
G	4	Christ Church Secondary School	Silver	Smart Knee Guar
G	5	Deyi Secondary School	COC	To investigate and
G	6	Fuchun Secondary School	Bronze	One Worm Kills T
G	7	Nguyen Tat Thanh lower and upper Secondary School, Hanoi, Vietnam	Gold	Study on the prep
G	8	Orchid Park Secondary School	COC	Investigating the e
G	10	Riverside Secondary School	Gold	Investigating the B
G	12	Vinschool	Silver	
G	13	Yishun Secondary School	Bronze	To investigate the
G	14	Singapore Chinese Girls' School	COC	Looping Pendulur

Project Details

Project abstract (min 250 words and maximum 300 words):

In this project, we are going to experiment with foods to power up an electric circuit using food items such as eggs.

An investigation was conducted to find out the effectiveness of dry-fit materials in increasing the evaporation rate.

The aerodynamic performance of paper aircraft are usually measured by the distance which they can cover, the time they take to land, and the stability of the aircraft.

We wanted to find out if we can use the body temperature of a dead human to estimate the time of death. We made a model of a human body and measured its temperature.

In cold countries, campers often bring separate jacket and sleeping bag during outdoor camps. They are bulky and difficult to carry.

We wanted to find out if the colour of a structure will affect the temperature inside it. If less energy could be used to heat the structure, it would be more efficient.

Purpose: Natural disasters such as tsunami, cyclone and tropical storms produce waves of a great magnitude that can cause a lot of damage.

Dropping eggs you have just bought from the supermarket is really annoying. You have to clean it all up, and that's a waste of time and money.

Most people will find it annoying when they are unable to remove stains on their teeth after brushing them thoroughly.

Our school members noticed an increase in the number of buses with green roofs while travelling around Singapore.

This project aims to find out if an efficient water filtration can be created using some biodegradable and non-biodegradable materials.

With the recent rise of dengue fever in Singapore, we would like to prevent the collection of water in the plant pots.

How can we best apply basic technology to help the underprivileged and/or disaster-hit countries? Daily hygiene is very important.

Purpose: Prime Minister Lee Hsien Loong cited in his National Day Rally in 2017 that diabetes is one of three key health issues.

Purpose: According to a 2014 International Panel on Climate Change report, electricity and heat generation is responsible for about 25% of greenhouse gas emissions.

Purpose: To find out how the colour of the curtain affects the temperature of a room. Since Singapore is getting hotter, it is important to find ways to keep the room cool.

Many birds and sea creatures, die each year from ingestion of plastic or being trapped in one. It was reported in 2015 that over 100,000 birds died from plastic pollution.

Plastics are non-biodegradable and plastic disposal severely damages wildlife and habitats. Only 4% of the 949,000 tonnes of plastic waste generated in Singapore in 2015 was recycled.

Toothpaste is such a simple life essential that we do not consider the packaging in which it comes in. Toothpaste tubes are made of plastic and are not biodegradable.

The purpose of this project is to compare the amount of oil between two types of potato chips: fried sliced potato chips and baked potato chips.

Plastic waste is a relentless enemy to our world due to its environmental impacts. The use of plastic straws is decreasing as people become more environmentally conscious.

A recent news article shared on how corals preferred to feed on microplastics instead of their natural food. As a result, the coral reefs are dying.

Singapore is a melting pot of cultures that celebrate at least four official festivities like Hari Raya, Deepavali, Christmas and Chinese New Year.

Despite lasting only for a short while before they pop, bubbles remind us of fond memories we have with our friends and family.

Objective: Our school, Xishan Primary, has adopted the use of a mindfulness meditation programme as a self-regulation strategy.

With an increasing number of people infected by fungi, we were wondering whether people could use foods to fight off fungi.

Purpose: To find out how rhythmic (classical music), non-rhythmic (traffic noise) and a no sound environment would affect the growth of plants.

Purpose of project: This project is about creating an air conditioner that is eco-friendly. As Singapore is heating up, it is important to find ways to keep the room cool.

Purpose: Drinking clean water does much more than quench your thirst. There are many benefits to drinking clean water.

In this project, we will be experimenting on the benefits of worm tea and worm cast as compared to chemical fertilizers.

The combustion of hydrocarbons has led to the emission of pollutants and greenhouse gases, thereby heating up the planet.

According to NEA, only 16% out of the 763,100 tonnes of food waste generated in 2018 was recycled. The increase in food waste is a major concern.

Milk is a common ingredient used in making desserts. In ice cream making, milk is a key ingredient added to assess the quality of the ice cream.

Going green is necessary nowadays to prolong the availability of our resources and ensure the continuity of our lifestyle.

We were surprised to read that mealworms are able to digest styrofoam safely. Having read about the environmental benefits of mealworms, we decided to try it.

The purpose of this project is to prove the effectiveness of a DIY water filter. Pond water was obtained from the school pond.

As people start to get more health conscious, more people are moving towards achieving a healthy lifestyle which includes eating healthy.

One common problem that many people are facing is that mould is taking over the world! Mould is often found in damp areas.

Grease stains can be found on many surfaces like stoves and clothes. Oil-removal detergents can easily be found in the supermarket.

This project aims to find out the effect of different food wastes commonly found in the school (such as fruits, vegetables, etc.) on the growth of plants.

Plastic debris in the ocean has greatly affected our human health, wildlife and the environment. The huge amount of plastic waste is a major concern.

The recycling of paper is the process by which waste paper is turned into new paper products. It has a number of environmental benefits.

Purpose: Our main purpose is to find out which type of potato would generate the biggest amount of current so that we can use it to power up an electric circuit.

PURPOSE OF THE PROJECT: We decided to do this experiment as we wanted to reduce food wastage as it is a major concern.

Wearing slippers with worn out soles, especially on wet surfaces such as wet market floors, can be potentially da

Plant cover protects the soil against erosion. Environmental conditions such as foot traffic, vehicle emissions, an

As people are getting more conscious about doing their parts in saving our environment, there is an increasing tr

By 2030, one in four Singaporeans will be aged 65 and above. According to Mr Tharman, one of our deputy Prim

In this project, a prototype was developed with the intention to lower the temperature of hot beverages to the opti

With orchid being our national flower, Singapore has been one of the leading orchid hybridization centres and ex

In Singapore, most of our fruits are imported and we do not understand much about the growth and ripening of fr

In 2013, a major haze incident in Singapore left the nation in a frenzy for high quality haze masks, only for a shor

Coffee grounds and tea leaves, which many people consider as a one-time use items for their beverages, are off

There has been an increasing occurrence of flash floods in Singapore over the last few years, which often led to

Anti Mould preservative in bread has been linked to obesity. Bread is a popular choice for breakfast and even co

The e-commerce market in Singapore has become increasingly popular over the years where more consumers :

Our purpose of this project is to reduce plastic waste by studying alternative materials such as bioplastic more cl

Our research investigated how different types of patterns 3D printed on discs would be able to withstand the grea

Diabetes has become a health issue for many people of different ages. In Singapore, one out of nine people age

The aim of the experiment is to experiment with activated carbon and how it is able to filter suspensions containi

The high toxicity levels of gases produced from burning petroleum cause adverse effects on the air quality. Studi

Approximately 270 million tons of banana peels are discarded annually. Its decomposition emits methane, which

In a tropical country like Singapore where we experience sunny weather all year round, it is imperative that we us

Nowadays, electricity consumption in the household is dramatically increasing, electricity price is sold to users hi

There has been an increase in the use of fitness trackers in Singapore, evident from the increasing sales. Fitnes

In recent years, people are leaning more and more towards organic food than 'normal' food. The public percepti

It is recently reported that 83% of the respondents in Singapore indicated a good price/value is the most import

In a country like Singapore that is hot and humid all year round, it is no surprise that swimming has remained a p

The purpose of our project is to address the problem of oil spills that pollute the ocean, severely damaging the e

We tested the effect of drinking three different beverages – coca cola, coffee (without sugar and milk) and water

In Singapore, the climate is warm all year round, resulting in the high usage of electricity to cool ourselves and o

In recent years, the use of hand sanitizers have become increasingly common in various places ranging from ho

Bubble tea contains lots of sugar that can cause health problems. Our project investigates the sugar levels in diff

During a trip to the Cerebral Palsy Alliance Centre, we were given the opportunity to interview two Boccia athletes.
In this project, our team explored the use of a microbial fuel cell in generating electricity. Such a cell uses the respiration of bacteria to generate electricity.
Food wastage has been one of the main concerns globally. One of the contributing factors resulting in food wastage is the lack of proper food storage and handling practices.
Every year, people suffer from heavy losses in storms and floods. Thus, the storm and flood are considered as one of the major natural disasters.
It has been claimed recently that Dental Teeth Whitening Light LED Bleaching Teeth Whitening Tooth Laser Machine is a safe and effective way to whiten teeth.
Haze has been a problem in Singapore in recent years. With most classrooms in Singapore not being air-conditioned, the haze has caused significant health problems for many students.
Tea is a commonly consumed beverage enjoyed by many people in their daily lives. There are many different types of tea, each with its own unique flavor and health benefits.
Hair nourishment is a topic that is of significant interest commercially. There are several folk remedies that aim to promote hair growth and prevent hair loss.
1. Purpose Cordyceps militaris has great pharmacological and economic value. Although the procedure of in vitro cultivation is complex, it is a promising area of research.
The purpose of this experiment is to determine which food waste optimizes the growth of basil plants. Our hypothesis is that food waste with a high carbon-to-nitrogen ratio will result in the best growth.
Most commercial sunscreens protect us by reflecting ultraviolet radiation or absorbing UVB or UVA rays. They contain chemical filters that absorb the harmful rays.
Spent coffee grounds, fruit peels and expired milk are common household food waste that are rich in nutrients but are often discarded. This project aims to explore ways to repurpose this waste.
Diapers are part of every child's life from infancy to toddlerhood. The discovery of disposable diapers is one of the most significant innovations in modern hygiene.
In the current day of advanced technology, transactions are easily done with the swipe of a card equipped with a microchip. This has revolutionized the way we conduct business.
Muscle weakness can affect people of all ages. In the elderly, prolonged sitting or bed rest can lead to weakness and atrophy of muscles. This project aims to explore ways to maintain muscle strength.
The aim of this project is to investigate and compare the potential of utilising selected food waste (egg shells and coffee grounds) as a substrate for the growth of Cordyceps militaris.
Styrofoam is toxic to the environment but it is not being recycled in Singapore. Mealworms were able to convert Styrofoam into a nutrient-rich substrate for plant growth.
Adsorption process has been proven one of the best water treatment technologies around the world and activated carbon is one of the most commonly used adsorbents.
This project aims to find out which type of milk and method is the best way to fix broken ceramics. Milk contains casein, which can act as a natural adhesive.
In line with the aim to develop Singapore into a sustainable city, large-scale and small-scale urban farming is likely to become a significant part of the city's future.
1. Introduction Besides honey, propolis is a valuable beehive product containing plant resin and beeswax. Several studies have shown its potential health benefits.
Biodiesels have increased attractiveness as they are more environmentally friendly than diesel. Hence, we investigated the use of waste cooking oil as a feedstock for biodiesel production.
This research is to find out the Golden Ratio of weight between the two objects at either end of the string so that the system remains in equilibrium.

js, lemons, limes, avocados and grapefruit. We chose these 5 foods as we want to compare which foods are of perspiration compared to cotton materials. This investigation aims to enable pupils to appreciate why schor time aloft and the speed at which they fly at. In this experiment, we aim to look at the aerodynamic characteristics measured the rate of heat loss of an orange heated to 37°C to model a human body and left to cool in different and have a fixed layer of insulation. We propose to create a product 'jacketbag' for jacket-cum-sleeping bag will to keep those houses in warm climate cool and those in cold climate warm, it will definitely help to save money that has caused a huge number of loss of human lives and damage to human infrastructure. Our project is to find it is a horrible job no one would like to do. So, our group decided to solve this problem. We have found a way to remove stains but yet none of the stains are removed. Many people have cavities as sometimes the toothpaste brand is more. An article shared that these green roofs were a pilot project and studies were underway to understand the biodegradable materials. Once the filtered water is collected, the quality of the water samples are tested by running tests especially for those Singaporeans who love to grow plants at home. With this in mind, our project aims to find food and nourishment are among the top needs for disaster ridden regions! Simply put, no water means no hygiene and long-term issues for Singapore. According to the data extrapolated based on National Health Survey 2010, Malaysia is responsible for about 25% of greenhouse gas emissions which makes it the most significant forcing factor of global warming. More families are using air-conditioning to cool their houses. With the correct curtain colour, we will be able to reduce 2018 that Singaporeans use about 2.2 million straws daily. We investigated the decomposition rate of plastic waste. 300 tonnes of plastic waste generated in Singapore in 2018 was recycled. Singaporeans use about 2.2million straws a day. A tubes, consisting of a plastic cap and a body made up of multiple materials laminated together, are difficult to recycle. Potato chips and fried compound potato chips. The former refers to whole potatoes which are sliced and fried. The latter is detrimental to our marine life and landfills. This project aims to find out which eco-friendly material (banana leaf or paper) result, the corals did not get any nutritional value from the microplastics and died due to bacterial infection. Christmas and Chinese New Year annually. The decorations, like banners, door decorations and fairy lights, use a lot of energy and money. People of all ages enjoy bubbles but the bubble solution may be toxic due to the presence of chemicals. A regulatory approach to reducing stress and better managing students' emotions. There has been a widespread concern in households to inhibit the growth of fungi. Therefore, in order to conclude whether these foods are effective, we would affect the growth of kang kong and green bean plants. **Method:** Six sponge cubes each containing one gram of food were placed in a container twice as fast as the world, we wanted to create an air conditioner that is eco-friendly so that it would not harm the environment, fresh water. According to research, drinking purified water is the safest option. In this project, we want to find out if fertilizer. Although chemical fertilizer may be cheaper, long-term use of chemical fertilizer can change the soil pH and pollute the Earth's surface. With increase in global temperatures, it has caused increase usage of electrical air-conditioning. Increasing global energy consumption coupled with a depleting supply of fossil fuels is a major concern. This spurred our interest in flavour, texture and melting properties. However, most milk contains lactose. People diagnose with the Lactose intolerance. Earth. We can achieve this by harnessing solar energy together with turbine technology to recycle water – a promising solution. Mental damage done by plastics, we were curious to find out if mealworms could be a viable solution to this problem. school pond. 100 ml of this water was measured using a beaker. A data-logger connected to a light sensor was used to monitor the water level which includes exercising. Wearing the right sportswear helps greatly in our comfort levels during exercise especially in hot weather. many households such as toilets and shady areas. Our group has been tasked to find out which household cleaning products are on supermarket shelves. However, some of these soaps are not environmentally friendly due to the toxic chemicals (like bleach, etables and chicken bones) on the quality of compost in the growing of green bean plants. It is hoped that this project will reduce the amount of plastic garbage in the world's oceans are leaching toxins, posing a threat to the marine and human life. If we can find out the important benefits besides saving trees from being cut down. It is less energy and water intensive than producing electricity. That we can create an alternative and cheap source of energy, the potato battery. **Method:** There are many layers to this project. It is a real problem in many countries and Singapore is no exception. **Conclusion:** We hope to find out the material that's best for the project.

dangerous as the user may easily slip and fall. Through our project, we hope to explore the possibility of giving
d low light availability can affect the growth of plants, reducing ground coverage, causing the soil to become b
end in opting for more recyclable materials or materials which are more biodegradable. Despite the rise in aw
ie Minister, "Healthcare is the biggest challenge for the future of social spending. It's the fundamental reason
imal temperature of 60 degree celsius for consumption. It was hoped that the prototype is able to help small-s
porters (including orchid cut-flowers) in the world. However, cut-flowers are perishable and commercial prese
ruits it. To better understand fruits, we have chosen to study cellulase activity in bananas. Our experiment aim
tage to occur in retail stores. In response to such national emergencies, our experiment seeks to combat air p
ten disposed of. Coffee grounds and tea leaves have a high nitrogen content which is an essential element fo
damage of properties and financial losses. In this project our team investigated how we could apply the expa
uld be taken as tea break snack. Breakfast which is considered as the most important meal of the day is as e
are using online platforms to make purchases for a variety of items. For such items, the choice of packaging r
osely. The Earth is very polluted by plastics which harms marine life and eventually harms ourselves. As such
atest mass. This enables us to explore structures that would have higher load capacity for buildings and bridg
d between 18 to 69 years has diabetes. This has amounted to more than 400 000 people, it is estimated that
ng different contaminants. Activated carbon has many beneficial uses in industrial and commercial uses, and
ies shows that lower amount of carbon dioxide and other emissions are being released when biodiesel is use
contributes to global warming. Our project aims to upcycle these peels. Firstly, we investigate if banana peels
se and apply sun protection to protect our skin against the harmful UVA and UVB radiation. However, with the
gh; wasteful use of energy sources contributes to causing environmental pollution.□From the above problems

s trackers not only allow consumers to track their workouts but also allow for reward claims such as vouchers
on is that these foods are better in terms of their nutritional value. The downside is that the cost of organic foo
nt criterion in selecting a household cleaning product. The performance of the detergent follows second. Amo
popular hobby for many people. While the intensity of UV rays from sunlight in a country near the equator is all
cosystem. We want to help the environment by trying to find a simpler, faster and more efficient way of clearin
on reaction time on humans as we wanted to find out which beverage was better able to keep a person alert,
ur environment. We aim to find out what glossiness of paint will allow the interior temperature to be lowered o
useholds to hospitals. They are replacing the common practice of washing hands with water and soap. Some
ferent types of tea and then makes a recommendation for healthier consumption. Benedict's test and refracto

s, Elaine and Aloysius. Through the interview session, we got to know that Boccia players diagnosed with cerebral palsy. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

chine Dental Care Tool Oral is able to whiten the teeth after several use. However, our group would like to explore the use of tea leaves used for this purpose. Tea leaves are known to contain the three main components needed for hair growth and to increase hair strength. This project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

es of tea leaves used for this purpose. Tea leaves are known to contain the three main components needed for hair growth and to increase hair strength. This project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

production of *C. militaris* has been widespread, strain degeneration is the main cause of mass production failure. The set-ups that were in the experiment with egg shells will boost growth of basil plants. The set-ups that were in the experiment with egg shells will boost growth of basil plants.

tain chemical filters, such as oxybenzone, avobenzone, octisalate, octocrylene, homosalate and octinoxate, are simply thrown away. This project investigates the effect of using these food waste to germinate green beans. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

the scientific evolution that help mothers to evade from the use of the cloth. This discovery has made easy for people to use. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

n RFID chip. However, skimmers can easily obtain these card's information by scanning it with an RFID scanner. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

in the quadriceps muscles, making it harder for them to perform basic daily tasks such as sit-to-stand. To overcome this, we developed a device that will help in the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

rene molecules into Styrene oxide and 2-Phenylethanol. Styrene oxide is a potential carcinogen while 2-Phenylethanol is a natural product. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

and carbon is undoubtedly considered as universal adsorbent for the removal of diverse types of pollutants from water. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

asein which is a major protein in milk, which can act as a binding agent. It has also been used to bind paint and dyes. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

ly to gain in popularity. Our team thus decided to look into ways that can help improve the growth of common mung beans. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

al species of bee produce propolis including *Apis mellifera* and stingless bees. Propolis is well known as a natural product. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

igated the effectiveness of soybean and canola biodiesels as alternative fuels for automobiles. The biodiesels are known to be more environmentally friendly than fossil fuels. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

the lighter one can sweep around the rod that is holding the two weights when released. When the Golden Rule is applied, the system will be more efficient. The project aims to investigate the effects of various parameters on the growth of mung beans in Singapore without the need for composting. This project investigates the effect of using these food waste to germinate green beans.

be able to provide the most energy to be able to light up the most number of mini lightbulbs in a circuit. We chose to use different materials to see how they affect the performance of three different aircraft designs and evaluate how they affect the performance of three different aircraft environments. Other factors considered were outer covering and size of the orange. First, the effect of environment with adjustable level of insulation. The problem arises because we might lose body heat to the cooler external environment on bills and the environment! We painted shoe boxes with light colour (white), medium colour (green) and dark colour (black) to find out which structure of a seawall is best at preventing seawater to overflow into coastal areas. We chose to use different materials to prevent eggs from breaking when they are dropped and it is by wrapping them with certain materials. Our study is that they are using does not clean their teeth as well as other brands. Hence, this motivated us to conduct an experiment to see the effectiveness of reducing the temperature of the interior of buses with green roofs. As such, the aim of our project is to test the samples through a variety of tests.

To find out which is the best method to use the polymers (found in diapers) with soil for growing plants while preventing water evaporation. All air, even in relatively dry desert regions, will precipitate or release its natural water content (initially in the form of clouds). In the Ministry of Health, Singapore, about 440,000 Singapore residents who were 18 years and above had diabetes. Global warming. Air conditioners can use up to 1/6th of electricity and emit over a half billion tons of carbon dioxide annually. It is able to save energy and also money. Method 1. Cut a window of the same size into the same side of four cardboard boxes and paper straws under different conditions to find out if plastic straws indeed take a longer time to decompose than paper straws. Plastic straws are discarded daily and they are not recycled due to its small size. The movement to ban plastic straws is gaining momentum. To recycle. In addition, people are becoming more conscientious of what they put in into their body and certain food items. For example, potato chips which are made using potato flakes or powder. Two brands for each type were obtained (e.g., potato chips, bread and paper) is the best to replace plastic to make straws. The straw must also be strong and waterproof. Coral reefs are a natural habitat for numerous marine organisms and the death of corals will eventually result in the loss of the reef. During these festivities are mostly made of plastic. Plastics are chosen due to its various permutation of possible uses. Detergent in the solution. Most bubble solutions do not mention what detergent they use. Even homemade bubble solutions. The growing use of this approach around the world over the past decade and many claims have been made regarding its effectiveness. If not, we decided to do this project. Our aim was to find out the effects of aloe vera, whey, white vinegar, yogurt, green bean or one kang kong seed were evenly distributed in each glass jar. The seeds were left to germinate in a controlled environment and it would be cheaper than most air conditioners. We hope to create a good prototype of a water purifier and find out the 'purity' level of Dasani purified drinking water. We hope to equip people of this experimental method to help reduce the amount of food waste thrown away and reusing them as organic fertilizers. However, the use of air conditioners, upset beneficial microbial ecosystems, increase pests and release of greenhouse gases. As part of our school project, we decided to do this project. Our aim was to find out the effects of aloe vera, whey, white vinegar, yogurt, green bean or one kang kong seed were evenly distributed in each glass jar. The seeds were left to germinate in a controlled environment and it would be cheaper than most air conditioners. We hope to create a good prototype of a water purifier and find out the 'purity' level of Dasani purified drinking water. We hope to equip people of this experimental method to help reduce the amount of food waste thrown away and reusing them as organic fertilizers. However, the use of air conditioners, upset beneficial microbial ecosystems, increase pests and release of greenhouse gases. As part of our school project, we decided to do this project. Our aim was to find out the effects of aloe vera, whey, white vinegar, yogurt, green bean or one kang kong seed were evenly distributed in each glass jar. The seeds were left to germinate in a controlled environment and it would be cheaper than most air conditioners. We hope to create a good prototype of a water purifier and find out the 'purity' level of Dasani purified drinking water. We hope to equip people of this experimental method to help reduce the amount of food waste thrown away and reusing them as organic fertilizers.

If this carries on, Earth will soon be destroyed. In this project, our aims were to create alternative forms of plastic using paper made from wood pulp. It saves waste paper from occupying landfill and producing methane as it decomposes. The results of research and investigation in our project. First we wanted to investigate whether the size of the potato is most suitable for keeping food fresh and cool for humans to take in under the hot weather. METHOD 1: Preparation of potato chips

slippers with worn out soles a new life by having grooves cut into them and investigate if the depth of these grooves affects the rate of plant growth. This project investigates the effect of these environmental conditions on plant growth. 5 readings were taken. Awareness in using recyclable bags when shopping for groceries, there is still a demand for paper and plastic bags. Why we need to raise more revenues, and why we have to spend effectively". Our group interviewed some local beverage business owners to lower the temperature of their hot beverages, given its compactness and cost-effectiveness. Preservatives are expensive. There are several proposed homemade flower preservatives which have claimed to increase the life of cut flowers. This is to investigate whether a change in the pH and humidity would affect the cellulase activity in bananas. This is to investigate the effect of pollution by using cheaper and easy-to-find household materials as a haze mask or window blinds. The purpose of this project is to investigate the effect of plant growth. In this project, our team aims to investigate the possibility of adding used tea leaves and coffee grounds to soil to improve the retention property of sodium polyacrylate to raise a flood barrier when it is exposed to water. To this end, we investigated the effect of adding right will enable us to start the day well. There are many types of breads available. In this project, we are investigating the effect of material is of utmost importance to ensure little or no damage done to the items during the mailing process. In this project, we wish to investigate the effect of the temperature of water on the composition of agar bioplastic, to see if it affects the strength of the bioplastic. This is especially so given the increasing popularity of 3D printing and its future applications in building houses. The number of diabetic Singaporeans will increase to 1 million by 2050. The government has come up with various initiatives to reduce the number of diabetics, also for health e.g. filtering unwanted and undigested toxins and drugs through the kidneys; commonly taken as a supplement. As petroleum is also non-renewable, it is not a sustainable power source whereas using fruit peels from food waste to produce bio-fertilizers exhibit antimicrobial activity against common oral bacteria. The increasing resistance of oral bacteria against antibiotics is a growing concern. A wide selection of sunscreen lotions that claim to provide SPF 50+ or more protection available off the shelves, our group successfully designed and assembled the model: "Household electricity monitoring and saving system". This project is from the health promotion board (HPB) and other insurance providers encouraging healthy living. While there is a growing trend towards organic food, it is also much more expensive than 'normal' food. This project is a study on whether organic food is better than conventional food. Among the respondents, efficiency and efficacy were listed as the most sought benefit when purchasing a detergent. As chlorine is already known to be damaging to hair, we wanted to investigate how exposure to chlorinated water would affect hair. We investigated oil spills, and hopefully even retrieve the oil for reuse. We investigated the rate of absorption of oil and retrieved the oil. We investigated and cause them to react faster to a stimulus. This is important especially for individuals who work in industries where they need to be kept cool. This would help reduce the need for high usage of electricity for fan and air-conditioning which would reduce the carbon footprint. Some brands even claim that they can kill 99.9% of bacteria. Therefore, the question is whether hand sanitizers are effective. Meters were used for the sugar test. Benedict's solution was added to samples which were heated and a color change was observed.

cerebral palsy require an assistant to collect the thrown balls on the ground. In each game, the assistant has to be a microbial fuel cell with a bio-anode. To test the cell, mud was first used in the anode. The construction of the battery, some of these man-made chemicals may bring along health or production cost issues to the consumer. Cambodia in Southeast Asia is also affected severely by natural disasters, especially in the Middle of Vietnam. Additionally,

to explore if there are any cheaper alternatives. The aim of this project is to explore as to which colour of light is most suitable for the classroom. In our experiment, we tested out the effectiveness of two low-cost air filters and measured the effect on plant growth which were nitrogen, phosphorous and potassium. This project is a study on how different types of popular hair folk remedies on hair strength and hair growth based on microscopic and physical studies of hair in Vietnam. In fact, Vietnam companies that produce C. militaris products dependent were chicken bones, egg shells, fertilizers and control. The fertilizer set-up was used to evaluate the effect of mineral filters such as zinc oxide or titanium dioxide. These active ingredients should not be irritating or carcinogenic, Vigna radiata, which are fast growing. 6 green beans are grown in separate containers containing: garbage, parents to manage their child's poop. To further examine the diaper's parts, we looked at the diaper's cross section. Our group attempted to compare three types of materials for their 'RFID protection'. The main consideration to overcome this problem, physiotherapists usually advise the elderly to regularly exercise their muscles. We intend to resolve issues of excess food waste in Singapore and the extra time and effort needed to prepare a compost. Ethanol is a compound used in perfume hence the biodegradation process by mealworm can be improved in water. Industrial wastewater, especially textile dyeing wastewater, is one of the serious issues in the development

and is commonly found in wood glue. For the first method, we boiled 250 ml of two types of milk (fresh & low-fat) and used them to grow edible household plants without the use of chemicals. The use of food waste, such as fruit peels, as fertilizer is a remedy with wide range of biological and pharmacological properties. The aim of the study is to discover antibacterial agents. The mixtures were prepared using 1.8g KOH in CH₃OH or C₂H₅OH with 100g of soybean or canola oils. The mixtures' stability is established, this can be used in high buildings to help make instant escape routes during emergency or

se food so as to find the best alternative replacement of batteries and energy. There are also other reasons w
it by wrapping similarly sized melamine sponges, soaked with 100 ml of water, with similarly sized dry-fit mate
fit designs. Four different forces interact to bring about the final performance of an aircraft. Since the mass of t
onment temperature on the rate of heat loss in an orange was investigated. The orange at 37°C was placed in
air at night. We aim to use the concept of heat insulation to test and select suitable materials for providing effe
dark colour (navy blue) to model painted houses. We tested the boxes under two environments; warm and cc
he following structures: 1) Normal rectangular wall 2) Curved rectangular wall 3) Normal rectangular wall with
olution to this worldwide problem can help thousands of careless egg transporters and shoppers to prevent ei
experiment to find out which toothpaste brand is the best at removing stains on teeth and to help people find o
study is to mimic the conditions of the buses with green roofs, and to investigate the effectiveness of green r

enting the collection of water. Four different methods were explored in growing the plants. In our investigation
a form of vapor) through condensation when it hits its dew-point temperature and below. That means you “chil
in 2014, and the number is estimated to grow to 1,000,000 in 2050. One of the food which is a major cause c
ide into the atmosphere each year, adding to global warming. Much of the cost of cooling our homes can be
ardboard boxes. One box will not have a window as a control set-up. 2. Cover the inside of the windows with
se. We hope to use our investigation data to convince our school community of the need to reduce or stop the
ning momentum. More than 270 food establishments in Singapore have stopped providing plastic straws to c
toothpaste ingredients are deemed harmful. Thus, more and more people are turning to homemade toothpas
tained, weighed, and crushed to obtain an oil stain on graph paper. Each oil stain was obtained three times ar
of in order for people to drink. We hypothesized that paper straws is the best compared to banana leaf straw t
decline and extinction of several marine organisms. We were also shocked to find out through another study, i
sible properties that it can be moulded into. Unfortunately, these decorations are often discarded after a single
oble solutions may use detergents that are not organic. Hence, we want to make our own bubble solution usin
rding its success. In this project, we investigate the extent of the positive impact mindfulness practices have o
ghurt and tea tree oil on the growth of yeast. We used the scientific method of investigation. We controlled the
and were watered with 100ml of tap water daily on weekdays. They were subjected to rhythmic classical musi
the air conditioner for other people to use by using the best salt type to lower the temperature of the air withir
d that will allow them to gauge the purity level of bottled waters. □Method □Pure water will not conduct electricity
ool effort to zero waste, the school has adopted worms and build worm bins which provide convenient way to
adverse effects electricity production currently has on the environment and encourage the use of renewable el
l, Longan shells and bread crumbs were dried and grounded to make them combustible. Chemical potential e
ning milk products. In our project, we are trying to find out which lactose free milk can produce ice cream whic
n Singapore to generate electricity. One such water body is our reservoirs. □Hydroelectric power is a type of ren
ould, which type of plastics do they prefer?

water filter and the filtrate (the liquid that passed through the filter) collected. The filtrate was checked with the
ickly, be absorbent, and allows perspiration to evaporate quickly. This will allow people exercising to feel cool :
namely baking soda, vinegar, soda water, shampoo, hand sanitiser, washing detergent and bleach. First, mou
ake a natural and effective grease remover. We hoe that the formula we made could be emulated at home an

stic and to compare their strength, solubility, heat resistance and biodegradability with petroleum-based plastic
breaks down. Around two thirds of all paper products in the world are now recovered and recycled, although it
ffects the amount of current it produces. For this, we used the russet potato because it is more commonly fou
are 3 insulator containers of different materials with the same thickness, size and shape. □2: Cover the inside o

grooves affects the amount of friction produced between the slipper and the wet floor. Grooves of different depths were collected at each study site, and compared against a control site, which has abundant light and minimal foot traffic. Between paper bags and plastic bags, paper bags were deemed as more biodegradable as plastics are not. We interviewed elderly citizens in a nearby eldercare centre to identify some of the common problems faced by elderly living alone. The prototype was built using micro:bit with its board, and a mini-fan and a buzzer connected to it. We aim to improve the lifespan of cut-flowers. The most common ingredients mentioned in these remedies are aspirin, bleach, and vinegar. As the first step to finding an optimum condition for the cellulase enzymes. To test how pH affected enzyme activity. The purpose of our study is to investigate the effectiveness of various household materials in filtering smoke from joss sticks. We use vermicompost on the grounds as a fertiliser with the hydroponics process. In this experiment, our team used the water spinach, and we investigated the expansion properties of sodium polyacrylate to water, and the effect salinity and pressure has on it. We are investigating how long can the bakery bread (preservative free) last as compared to the branded breads with preservatives. In this project, we compare the use of various packaging materials which are commonly used in the market, such as paper, plastic, and agar bioplastic can be broken up by water of different temperatures to mimic the ocean's conditions to assist in the development of bridges within short spans of time. We hypothesized that discs with straight lines crossed perpendicular to each other will impaigns to reduce the sugar intake which specifically affects type 2 diabetes. Hence, the group's focus is on investigating the use of orally as a deterrent to diarrhoea in cases of food poisoning. Different types of contaminated water are used, and we aim to see if food waste may be a more sustainable approach. Our project investigates whether the fruit peel that has higher sugar content than chemically synthesized antibacterial agents in toothpastes makes it useful to explore alternatives in natural substances. In our group we seek to investigate the effectiveness of different sunscreens which claims to have the same spectrum. The system has 5 blocks (Source block, Processing center block, GSM communication block, Display block, and Speaker block).

There are many brands and models of fitness trackers, watch accuracy data are not easily available to consumers. We aim to see if organic food is as regular food in terms of the plant growth and the substances that it contains. Is organic food really a better option? A number of respondents also wanted detergents that could be used on all types of items.* Through this project, we aim to see if different types of hair. Our experiment aims to investigate and observe the effects of prolonged exposure to different types of hair. We aim to evaluate effectiveness of the following materials: diaper, sponge, microfibre cloth and cardboard. We cut the materials into different sectors that require long hours of high focus, such as those involved in transport of goods. We hypothesized that the use of these materials would in turn save natural resources. We have decided to use the glossiness level in our paint as our independent variable. We aim to see if different types of paint are effective in killing the bacteria. If they are, are there any differences in the effectiveness of killing bacteria among different types of paint? Our change was observed. A colour change to red being the most sugar, and a colour change to green being the least sugar.

end down to pick up the balls frequently. Thus, we decided to design an automated Boccia ball device to provide a solution to this problem. The device was designed and built, and the experiment was successful and a peak voltage of 460 mV was generated. Our group next tried to use a mixture of yeast and sugar to generate electricity. This project looks into the possibility of using commonly occurring natural substances that are easily accessible in Vietnam. Additionally, the danger of floods is illustrated in the famous legend of Vietnam's literature called "Son Tinh Thuy Tinh".

st effective in whitening of teeth. We hypothesize that the colours with wavelength closest to blue light. We us

ie quality of air of each set-up. To simulate the polluted air, we burned an incense stick. Set-ups: Set-up 1(con

es of tea leaves can affect the growth of different types of plants. The purpose of this project is to investigate

ifused with selected remedies.The selected remedy ingredients are coconut oil , aloe vera and egg white, alth

d on the imported *C.militaris* with high cost and high riskiness. Therefore, the aim of this study is to create hig

t of egg shells or chicken bones relative to fertilizer. There were a total of 30 beakers and 90 basil seeds in the

use skin allergies, and should be able to withstand powerful UV radiation without losing their effectiveness or t

den soil only (control); diced orange peels only; coffee grounds only; equal amount of soil and diced orange p

section. The center of the basic disposable diaper consists of a gasket, inside membrane, cotton, sodium poly

ion of these materials are that they should be low cost, easily obtainable, safe and durable. The final aim is to

rviewed some elderly and identified common problems that elderly face. Problems such as knee pains and ba

sting mixture. Multiple mung beans were allowed a few days to germinate in a tray of vermiculite first. The eq

d. Feeding mealworms with oats drastically increase their consumption rate of Styrofoam by 700% to 1000%.

ing countries including Vietnam. It has been widely recognized that dye removal by activated carbon adsorption

) until it reaches a temperature of 50 degree celcius. We then left the broken spoon for three days. After the three days became the focus as these peels would have otherwise been thrown away. There is also little to no alternative compounds from the stingless bee propolis in Hoabinh province, Vietnam. 2.Methodology + Sample extraction were stirred for 1h at 50oC-60oC for even mixing to increase yield. As there was no separation between glycerol and fire. The other researchers may have investigated the angle of release of the heavier weight. The significance

we chose foods instead of other alternative items. Firstly, food is convenient and more readily available especially materials and cotton materials of three colours, white, black and blue. The control setup is similar as the above but the paper used in the aircraft and the amount of launch force for the aircraft remains the same, the thrust and is a Styrofoam box filled with room-temperature water. A data logger with a temperature probe inserted into the active and flexible heat insulation. Our key considerations in our experiment are: 1. slower heat loss from the tool. The first experiment, we placed each box under a lamp to represent warm environment for an hour. We then used 10 marbles. We wanted to find out which structure is best at preventing water from overflowing. Method In the eggs from breaking when accidentally dropped. They can apply our idea so that none or at least less eggs will break out which toothpaste to use. We carried out the experiment by fully submerging an egg into a beaker of coke cans. To mimic the conditions of buses on the road, we made use of cardboard buses with paint and conductive

1. we ensured that there was only one changed variable. In addition, we also investigate whether the polymers can bring it to an appropriate level that is anywhere from 10°C to 15°C below its current air temperature, depending on the amount of diabetes is sugar-sweetened beverages. In view of the alarming statistic, our group is interested to find out if we can be saved by passive and simple cooling techniques which do not require expensive retrofits or professional installation. 2. Plastic wrap, taping it into place on the inside of the box. 3. Cut curtains from the four types of colour of curtains. 4. Use of single-use straws. We conducted our investigation by filling 3 similarly sized pots with equal amount of water. 5. Consumers in 2019. Metal straws are costlier and less convenient. Our project investigates (1) the use of hollow straws. However, how effective are these homemade recipes versus traditional commercial toothpastes? In this experiment, we used the average amount taken to ensure the results are consistent. It was found that fried sliced potato chips had a higher water content than edible (bread) straw. Banana leaf straws were handmade by our team by cutting one of the banana leaves into strips. That due to the bioaccumulation effect of microplastics in marine organisms, humans on average consume up to 5g of plastic per week. Problems due to plastic waste have been well researched. We used the scientific method to make different types of soap. 6. Olive oil soap. Olive oil is a natural oil obtained from olives. We make our own olive oil soap before adding it to the water. 7. In students' well-being. Methods A review of the current literature available was undertaken to provide us with background information. 8. Variables in this investigation to ensure a fair test. The variables which were kept constant were: volume of water, type of container and non-rhythmic traffic noise for eight hours daily on weekdays for a span of two weeks each. The control was the container. Procedure First, we cut 4 holes on the side of the containers and 1 hole on the lid of the container. 9. If a battery is placed in the pure water, the hydrogen molecules and the oxygen molecules will not be separated. 10. Dispose organic waste such as fruits and vegetables. In return, the worms have produced worm tea and worm energy. Therefore, we decided to explore the effectiveness of eco-cooler in lowering room temperature using worm energy. 11. In these food waste is converted to heat during burning to heat 100ml of water in a closed system. The chocolate has a texture and melting properties that is closest to the ice cream made of whole milk. 12. Renewable energy which is available at all times. This is unlike solar energy generated from solar panels which is

data-logger. Then, the filtrate was filtered again. This second filtrate was again checked with a data-logger to ensure it was accurate and comfortable, at the same time preventing heat stroke. In our project, we will be investigating three materials. 13. The material was grown on various lemons. Next, two drops of the respective cleaning agents were placed onto the material. 14. And this will reduce the amount of waste generated as it can be made in smaller quantities and stored in recycled containers.

15. We created four alternative forms of plastic that were made of corn starch, potato starch, potato starch with glycerol and water. 16. It does not all become new paper. After repeated processing the fibers become too short for the production of paper. 17. And in our supermarkets and it is cheaper than the other types. 18. Next we also needed to find out whether the type of material affects the rate of degradation. 19. The first container with the materials. 20. Drill a hole on the cover of each container. 21. Weigh the ice to ensure the

ths were cut into slippers and the slippers were pulled along a wet surface and a dry surface using a force ser
 t traffic, and is located away from vehicular traffic. Sampling was carried at random using a quadrat, and the t
 e generally made from long chains of hydrocarbon polymers that requires a longer period of time to break dow
 one. One of the issues brought up by the elderly was they had difficulty cleaning their windows as they do to n
 its board. A code was developed and sent to the micro:bit. The code would activate the mini-fan if the micro:b
 leach and citric acid. The aim of this project is to investigate the potential of using aspirin (A), bleach (B), citric
 tivity, 3 pairs of 5g banana peels were exposed to 3 different pH environments of 2.1, 7.0 and 12.0 respective
 sticks. Three materials: cotton, tissue paper and polyester were tested, along with a control setup. The experi
 r kangkong, and grew them with a mineral nutrient solution (emulating conditions as close as possible to the c
 its ability to expand. Using commonly available polyacrylate, our investigation revealed that increasing the ma
 added preservatives. This is to enable consumers to make informed choices when selecting the type of breac
 ch as paper, styrofoam and plastic. This was achieved by wrapping an egg with each of the above packaging
 n its decomposition. Our methodology: Step 1: Make four samples of different volumes of glycerin and distille
 ularly provide the strongest support & load carrying capacity. We 3D printed circular discs of five patterns wit
 food intake as the root of inquiry. The high penetration rate of Korean culture into our society in recent years l
 added with a fixed mass of carbon and then filtered, using the laboratory filter paper. Examples include sand,
 caloric value will produce biodiesel that burns the longest. Firstly, biodiesel was prepared with oils from fruit p
 sources such as banana peels. Secondly, we build on research by Bonnet et. al. (2013), which states that ripe
 f protection. Using a few leading brands of sunscreen lotion that can be commonly purchased from the near
 block; Electrical equipment block – each block has there own function) were assembled follow 6 steps (Asser

 i. Herein, we describe an investigation to compare the accuracy of fitness trackers to allow consumers to ma
 choice? Our group decided to investigate this hypothesis using two approaches. The first one involves the g
 roject, students would like to investigate which detergent is able to remove selected stains such as. Students
 chlorine on hair treated with different chemicals. The duration of exposure to this variable in our experiment i
 erials into similar dimensions and recorded the dimensions. We did 6 replicates of each material. Our method
 l that coffee will make a person most alert and have the shortest reaction time. To investigate the effects of th
 lent variable as the amount of gloss affects the amount of light reflected which will impact the amount of heat t
 along the various brands available on the market. Our objective of this project is to investigate the effectiveness
 he least sugar. As the Benedict's test only shows the presence of reducing sugars, a refractometer was also u

ide support for the assistant and increase the efficiency of collecting the balls. Our group went through the de
yeast and fruit peel waste to generate electricity. In total, we tried three different fruit peel wastes – jackfruit, le
ple to people to prolong food freshness so as to reduce food wastage by extending the food expiry. The aim is
Tinh”. To be able to minimize the damage in disaster-prone areas, some types of anti-storm houses and floor

sed eggshells to represent teeth as both are made of enamel. The eggshells are stained with coffee and differ
trol): No air filter Set-up 2: 2 paper plates with a thin layer of Vaseline covering the surfaces of the plates Set-
whether we can recycle the tea leaves to be used onto the growth of plants. Our group decided to grow the pl
ough there are other exotic ingredients. These ingredients were chosen as they are the most popular remedy
h yield and quality C. *militaris* strain for mass production in Vietnam. 2.Method + Single ascospore isolation fr
a experiment. Each beaker contained 200g of soil. We added in the food waste and fertilizer in 3 different am
forming potentially harmful breakdown products. However, some chemical ultraviolet filters may mimic hormo
eels; equal amount of soil and coffee grounds; and equal amount of diced orange peels and coffee grounds. I
acrylate, and finally the outside cover. The gasket that touches the baby's butt allows the liquid to pass throug
make wallets, pouches, pockets, bags, etc.. from these materials. The materials that we have chosen are ca
ick pains are what elderly have to go through on a daily basis and it affects their everyday routine. After doing
gg shells were prepared as fertiliser by first washing and drying, followed by grinding and crushing them into p
However maggots will eventually grow in setups with oats making the growing environment very inhospitable.
on is due to the surface action between the dye and the functional groups present in the surface of the carbon

hree days, milk curbs was formed and some whey was seen. However, all four of the broken spoon was not fi
ative uses for these fruit peels. Furthermore, the use of food waste as fertilisers has been well-researched and
raction: Stingless bee propolis will be extracted with EtOH 70%. The extract will be partitioned with n-hexane :
rol and ethanol-based biodiesels, they were not further used. Methanol-based biodiesels were further tested f
e of our investigation is to get the ratio of the two weights that will allow the looping to occur.

ally in times of an emergency. We can readily find food products such as eggs and lemons in our home, thus without being wrapped with any materials. A temperature probe connected to a datalogger was inserted into weight of the aircraft does not affect its performance. Instead, we evaluate how the lift and drag characteristic orange was used to monitor the decrease in temperature. The experiment was repeated using iced water using wrapped air to the surrounding air. ● adjustable warmth level ● convenience and comfort to the user. We tested then measured the temperature inside each box. We found out that the temperature in the navy blue box has the experiments, we used the following items: 1) 1 fish tank 2) Plasticine 3) Water 4) 1 piece of corrugated board be wasted. We conducted an experiment to find out which wrapped material best protects the egg from breaking overnight. We proceeded to brush the different brands of toothpaste onto the stained egg and counted the number and our experiment with two set-ups: one with a green roof and one without. To further replicate the conditions

in different brands of diapers and the amount of polymers used have any effect on the plant growth. We observed upon how much water content (relative humidity) it has locally absorbed. The condensation of the water vapor at the amount of sugar content in commonly consumed drinks. From our results, we hope to raise awareness and plantations. Landscaping such as trees, vines and shrubs can be used to shade homes and reduce energy bills. in material that will completely cover the window. Secure the curtain in place with sticky tape. 4. Place a container of garden soil. We added equal amounts of compost A and B, separately, to 2 of the pots. Subsequently, 7 plants stalks of chinese spinach, kang kong and papaya as single-use, biodegradable 'vegestraws' and (2) how the experiment, we investigated the effectiveness of 2 homemade recipes – a simple baking soda recipe and another have a greater amount of oil than fried compound potato chips. We conclude that since fried sliced potato chips from our garden, cutting a rectangular shape, rolling and tying them into straws. Edible (bread) straws were made to one credit card sized worth of microplastics a year. This results in further health issues which compelled us to create different types of bioplastics that are suitable to make festive ornaments. We hope that this bioplastic will be well suited in to a mixture of glycerin and water. We compared the effectiveness of this solution against commercially produced an overview and help us evaluate the construct of mindfulness intervention strategies, the effectiveness of using warm water, temperature of warm water, volume of white sugar, volume of yeast, brand of yeast, and volume of set of plants were not exposed to any sound for the same duration. Three tablets were used to ascertain the container. We weighed the ice cubes and the different types of salt, to ensure that the mass of the items are 500g. Tested as the chemical compound (H₂O) will not be subjected to electric current, which will result in no formation of a cast that can be used as organic fertilizer. Experiment was designed and conducted to evaluate the effectiveness of wind. For this project, we aim to find out if the bottle size affects the degree of reduction in room temperature. temperature of the water was measured over 10-minutes. An increased amount of heat produced during burning

is only available in the presence of sunlight. Being a country with relatively flat terrains, Singapore does not have much to check how much light it let pass through. It was found that there was a large increase in the amount of light transmitted, cotton, dri-fit and Airism, to find out which material is best for sportswear. For our investigation, we used several old parts of the lemons where they are kept in zip lock bags for one week. The most effective cleaning agent used containers.

corn starch, and corn starch with agar agar. We used the scientific method in conducting the investigations. From a new paper. Producing paper from wood is an extensive and expensive process that also uses up our natural resources. The type of potato affects the amount of current it produces. We chose 3 different types of potatoes of similar size - as they are the same mass. 5: Place ice into each container 6: Use 3 thermometers of the same type. 7: Cover

tor and spring balances to measure the amount of friction produced. It is well understood that the amount of total green coverage and percentage of plant coverage by different species were recorded. Cow grass, Axon in the natural environment. However, plastic bags are more popular as they serve many purposes due to thot have the strength or would risk falling while trying to clean high windows. We decided to work on creating a it detects the temperature of the hot beverage to be above the optimal temperature. The mini-fan would lower : acid (C) and the combinations of these chemicals (A+B, A+C, B+C, A+B+C) as a preservative for orchid cut-ly. To test how humidity affects the enzyme activity, 3 sets of 5g banana peels were exposed to 3 different levment was conducted by passing smoke from 5 burning joss sticks through each material of 0.07cm thickness :ommercial farms in Singapore) together with either used coffee grounds or tea leaves. Over the period of 10 ass of sodium polyacrylate increased the volume of water absorbed and hence the volume of the expanded ge d to eat on a regular basis. <https://www.telegraph.co.uk/science/2019/04/24/anti-mould-ingredient-bread-could> materials, and then dropping them from a fixed height. Breakages to the eggs for each material at the variou :d water, with a fixed mass of agar powder: Step 2: Cut out 9 square pieces of bioplastic, each measuring 3cm h straight and wavy lines within the disc, and varying in whether the lines were crossed perpendicularly. The v has caused the increase in the number of Korean eateries locally. Kimchi, a dish made from fermented cabbage, soil, food colouring, pond water. The filtrates are compared to find the range of 'cleanliness'. A scale to rate teels. Thereafter, biodiesel was burned to heat water to 100 °C and the one that took the shortest time has the ning influences the composition of bioactive compounds in bananas. We investigate if different levels of ripene st supermarket, we make use of fish skins to test out the effectiveness of the sunscreen lotions. The skins are nble source block; Assemble the processing center block; Assemble the GSM communication block; Assemb like informed decisions when purchasing fitness trackers and smartwatches. Comparisons of the extent readir rowing of plants using organic seed against the 'normal' seed. The group used cucumber, corn and tomato se will also share their findings with the school population. Selected stains (coffee, chilli sauce and marker) we s based on the average duration of training sessions of competitive swimmers, to see whether such levels of ology was as such: Step 1: Pour 200 ml of cooking oil into a plastic tub. Step 2: We would then place the sar ie various beverages, we consumed 200ml of a beverage and took a reaction test after a short break of 30 m trapped within the space. It is hypothesized that the glossier the paint, the higher the room temperature due to s of different brands of hand sanitizers (alcohol or non-alcohol based) on killing bacteria. In this project, we w used to measure the sugar level. The results show that both types of tea from LIHO have the greatest amount

we decided to experiment on them. Secondly, food has many purposes compared to a battery. It can be a source of energy. We placed the sponge at a fixed position for each setup to measure the changes in the temperature of the sponges. The efficiency of the aircraft is affected based on its design. In specific we aim to see how the surface area of its wings affects the rate of heat loss of a similar-size orange. The steps above were conducted 3 times. Results show that the rate of heat loss of a material with heat insulation property, namely styrofoam, cotton and paper. A fair test is needed. Hence, we conducted the highest temperature. The second experiment, we placed the same shoe boxes in the refrigerator to represent a cooler. (23 cm by 18 cm) 5) Marbles (18) Steps 1) Fix the wall in the tank 2) Fill the tank (before the wall) with water. We tested many materials which were: egg cartons, big and small bubble wraps, sponge, cotton balls, rubber of strokes of the toothbrush needed to remove the stain. Based on our findings, only 50 strokes of the toothbrush were needed. On the buses on the roads, the experiment was conducted on a tar road. We grew catnip on one of the buses protected

the growth of the plants over a few weeks. From our findings, there was no significant effect of the polyurethane. It releases its internal latent heat (reheating the cooled air) which must be constantly dissipated (absorbed by the air). We hope that Singaporeans can cut down on their daily sugar intake.

Our group hope to explore how shading using common shrubs can be tapped on as a simple and effective way to reduce the temperature. 5. Insert a thermometer into each box and record the temperature reading. Paper straws and 7 plastic straws were then buried in each pot. Water is then added to all the setups to speed up the process. The physical properties change after straws are heated. The properties of flexibility and suction of vegetrstraws were tested. Whether with the addition of cacao powder – and a commercially found fluoride toothpaste. Eggshells were used to test if they have a greater amount of oil, it should be avoided or consumed only occasionally as part of a balanced diet. We also made bioplastics by our team by mixing flour, water and salt, cutting them into shape and rolling them into straws. The purpose is to raise awareness on the issue of microplastics and the alternative choices that are kinder to the environment. We received by others who are just as environmentally conscious. As the bioplastics we made could be made in a similar way to the reduced ones to observe if the bubbles will pop just as quickly. We used the scientific method during the whole experiment. We used different strategies and certain mindfulness awareness attention scales to assess the effectiveness. Our project results show that the properties of the different types of foods. Identical glass containers were also used. The changed variable was the type of food. We used a sound level meter to measure the average sound level; one for the running of the sound meter application, one for recording the running of the sound meter. We used 10g and 15g respectively. Next, we poured the ice into the small plastic container and the salt after. We made sure that the water was clear of bubbles. However if the water used contains impurities, electric current can flow through the water and this can be dangerous. We used the goodness of worm tea and worm cast as organic fertilizer. The plants used in this experiment were basil and Indian chives. We conducted the experiment on a warm day. To measure the temperature changes accurately, we decided to use a temperature sensor and a data logger. The results show an increase in water temperature. We hypothesised that food waste produce more heat than science

we have the advantage of putting up dams across fast flowing water along rivers to generate hydroelectric power. However, this is not a sustainable solution.

What passed through the water before and after filtration. It can be concluded that the DIY water filter is somewhat effective. We used strips of materials cut to 15cm by 4cm. We have conducted four experiments to test for absorbency, evaporation and the rate of growth. The results were determined by the amount of mould that was removed from the lemons based on visual observations. Finally, we conducted a test to see if the water was clean.

For every test, we controlled the changed and unchanged variables to conduct a fair test. The strength test showed that the water was clean. The resources and pollutes the air and streams with industrial wastes. Chemists are trying to reduce these problems. We used a red washed potato, a white washed potato and a russet potato. Lastly, we read an article online about science. We used a thermometer to measure the temperature of the water. We drilled a hole in the lid and insert a thermometer into each container through the hole drilled. 8: Record the results at 5 minutes.

friction F is related to the normal contact force N and coefficient of friction through the formula . We placed di
opus compressus, is the dominant species in the control site and in areas with high foot traffic. In areas with h
eir durability and waterproof properties. However, with the pros came the cons as the very fact that plastic tak
Smart Window Cleaner. We adopted the idea of a normal hand held window cleaner which is magnetised to
r the temperature of the hot beverage. When the temperature is lowered to the optimal temperature, the mini-
-flowers. The single treatment solutions (300 mg/L Aspirin, 65 ppm Bleach and 2 g/L Citric acid) were prepare
els of dehumidification - 40hr, 20hr and control respectively. All samples were exposed to these conditions fo
. The joss sticks were left to burn for at least 15 minutes when testing each material. When the smoke enters
days, our group measured the growth of the plants. With our findings, we will be able to advise the school and
al. This was in agreement with our hypothesis. Each gram of sodium polyacrylate could expand and occupy aq
l-fuelling-obesity-epidemic/
s heights were recorded.

by 3cm, per sample. Step 3: Measure the mass of three replicates of each sample before submerging it in w
variables kept constant were diameter (6cm), thickness (0.5 cm) and material (Acrylonitrile Butadiene Styrene,
ages usually accompanies Korean cuisine as a side dish. It is often consumed in large quantities due to its var
he clarity of the filtrates will be made on our own and is inspired by a geography method used. Using this scal
greatest amount of energy. The amount of carbon dioxide produced was also measured. The results show th
ess affects the strength of antimicrobial activity that the peels exhibit. To differentiate rate of ripening, some b
e first removed from the fish and cut into small square pieces. The skin are than observed under the microsc
le display block; Assemble Electrical equipment block; Complete the system). The system could capable of m

rgs on the fitness trackers deviated from the actual distance travelled, steps taken or floors climbed were use
æds. We used the same type of soil, poured the same amount of water each day and used no fertiliser at all.
re applied on a white cloth and placed in different beakers dissolved in fixed amount of detergent (Kao Attack,
exposure to chlorine are detrimental to their health. Additionally, the experiment investigates the efficiency of l
nple material into the plastic tub containing the oil. Step 3: In 1 minute intervals up till a total of 5 minutes, the
inutes. The reaction test was conducted on an online platform, humanbenchmark.com, which takes the mean
o the light reflecting, causing a potential Greenhouse effect. We have created 3 set-ups of boxes with differe
ill use a sterile swab to swab the hands of 3 different students after they are exposed to some bacteria on the
t of sugar present. A taste test conducted also resulted in the same conclusion that the teas are the sweetest.

re making a cardboard model. We researched on mechanism and tried them through modelling. After evaluating the voltage within a half-hour period. We then investigated on whether the mass of fruit peel added will affect the rate of consumption. Various types of naturally occurring substances were applied on agar plates to study the effect of the design which has been built to protect against flooding associated with storm resistance, while unexpected storm

the greatest change from a scale from 14 to 6 while the other colours only had a change of 14 to about 10 to 12.

air quality test kit to test out the efficiency of the air filters. The air quality test kit measured the PM10, PM2.5, Total

these plants were monitored and watered twice daily. The second way that the group carries out their experiments

remedy was suitable for hair nourishment, experiments were carried out on many samples of hair. Hair from

the type gene of each ascospore. + Hybridization on brown rice medium by mixing germinated spores of two strains. The seeds were watered with 50ml of distilled water every Thursday. We used a ruler to measure the height of the

and in laboratory studies, it is a weak estrogen and has potent anti-androgenic effects. We would like to investigate

All the green beans in the control germinated, while half the green beans germinated in the set-up containing

in the diaper. Lastly, the outside membrane retains the contents of the diaper. Instead of relying purely on the

carbon is a conductor. It is able to conduct electricity and absorb electromagnetic waves very well. Fibreglass cloth

Our group went through the design thinking process to research, ideate and develop our ideas. We researched

were then mixed into the soil and the seedlings were transplanted from the vermiculite into the soil. Four different

to complete their life cycle when they were fed with food, but the cost of using mealworms would come from the

in order to solve the textile dyeing wastewater, we have made activated carbon from coffee grounds to absorb

boon inside for 10 minutes and then letting it simmer for 25 minutes. However both methods didn't work, so we

all household plants. Therefore, we investigated the effect of fruit peels on the growth of curry leaves (Murray

analysis of the chemical structure using spectroscopic methods like mass spectrum and nuclear magnetic resonance spectroscopy testing. The washed biodiesels were tested for their kinematic viscosities, heats of combustion and cloud point

fferent masses onto the slipper to vary the normal contact force and simulate the force applied by a human's
high exposure to vehicle emissions, in addition to cow grass, roadside flatsedge, *Cyperus zollingeri*, and kidney
es very long to be broken down in the natural environment has actually led to increasing waste problems to o
each other on both sides of the window pane. By creating a device in which the elderly are able to activate it t
fan would be deactivated, and the buzzer would be activated to produce a sound to indicate that the temperat
d based on the recommended concentrations by other research studies and websites. The lifespan of the orc
r 1 hour. After, concentration of cellulose present in the samples were tested and compared to determine the
the enclosed glass jar, the visibility of the air within it decreases. This was recorded by shining a flashlight thr
d our community on reusing tea leaves and coffee grounds instead of simply treating it as waste.
approximately 200 cm³. We also discovered that salinity had a strong negative influence on the water absorba

ater at 35 degrees Celsius. [Step 4: Keep the agar bioplastic in the water for three minutes. [Step 5: Dry the ag
(a type of thermoplastic polymer). To test the strength of the discs, a tote bag was tied to them and weights of
ious benefits to health such as the introduction of healthy bacteria and probiotics for the wellness of the diges
le, the clarity of each filtrate will be compared or rated. Thus, the contaminant that can be most effectively rem
at the biodiesel produced using the oil from fruit peels can be burned and the one with the highest caloric val
ananas were placed in the refrigerator to slow down ripening, while some were placed with other ripe fruits ar
ope to check for any damage to the skin cells before the experiment. We apply a layer of sunscreen lotion on
measuring current flow and voltage of electrical appliances, thereby knowing the electricity consumption. When

d to assess the reliability and validity of 4 fitness trackers: the Apple watch series 3, Fitbit versa, Actxa Tempo
After that, measurements were taken daily in terms of plant height, the width of leaves, the number of leaves
, Dynamo, Kodomo, Persil) and water. A control setup with beakers of water is also conducted. The setup was
hair supplements (e.g Vitamin E oil) in strengthening the hair, tested with exposure to chlorine, and see wheth
volume of oil absorbed by the material was measured. Step 4: Squeeze dry the material and measure the vol
of 5 reaction timings. The activities done during the rest period was standardized and restricted to light activi
nt coloured paints, namely Sail White, with a daylight reflectance of 77.56% (highest glossiness), Fresh Apricc
ir palm. For the first sample, without using any hand sanitizers, the swab will be rolled onto an agar plate (pre
. Thus, it is recommended that consumers request for lower percentage of sugar level instead of 100% to redi

and ingredients for cleaning. Since food can be reused for many things in our daily lives. Therefore, there is mapped in different materials) were recorded at 10 minutes intervals for 100 minutes. Data collected shows the time aloft and therefore there is a greater net resultant lifting force. We also aim to see how the cross section in the rate of heat loss of an orange was investigated. A similar-size orange at 37°C was covered in cling wrap

Table 1: Recorded temperature Materials Surrounding Temperature inside material temperature after time

the temperature in the navy blue box still has the highest temperature compared to the other two boxes. The rd to produce the wave) 5) Use the board to produce the wave (1 time) 6) Measure the height of water after th

erial to prevent the egg from breaking. We did not expect the egg carton to be the best protective material as e needed 80, the most number of strokes to do the same. Hence, we conclude that Oral-B is the most effective l

measured the temperature change at regular intervals over one hour. We repeated the experiment to increase tl

he soil remain wet for a longer period of time. The results showed that generally when the polymers were mixe and chill our air without any infrastructure or electricity, in an underprivileged or disaster-ridden region? We sin ueezed Fruit Juice, 100% Fruit Juice, Fruit Juice (Peel Fresh) and Soda by heating each of the liquid mixture e the temperature of the house and thus electrical consumption. Method Three prototypes will be created and

ake the temperature reading for each box every 15 minutes. Main Findings As expected, the box with the bla

: the end of each week over 5 weeks. After weighing, we immediately buried the straws into the same pot of s

e center of a horizontally placed straw and the displacement of distance from the original measured. The sucti

ounds that are attacked by the acids in these liquids. An effective toothpaste will be able to protect the eggsh

sted to two tests: Strength Test and Solubility Test. For the Strength Test, three straws of each type were clar and assess the effectiveness of alternatives. Through this, we aim to educate the users around us that you can

e environment and their young children.

roach. A total of two hundred and twenty eight Primary four, five and six students attended either a mindfulne e the reliability of the results. We observed how the yeast in each glass container grew in 30 minutes. We cor r the playing of classical music or traffic noise. To determine the plants' health, we started to measure and re

able mini fan above the hole in the cover. After that, we turned the fan to speed 2. We placed two thermomete

/gen are at gaseous state at room temperature and gas is less dense than water, bubbles of hydrogen and ox

that of using chemical fertilizers. Students collected worm tea and worm cast and prepared 100g of worm te

ame low speed and distance. Bottles of three different diameters were used, with the size of bottles' necks ke

g. The % increase in temperature of water is the highest amongst the three and also higher than that of the sc

servoirs are used for water activities such as canoeing. Recently, solar panels were installed at some reservoi

s, each test was conducted at least three times. From our experiments, we found that Airism is the most absce

n our research, mould is a type of fungi that grows best in damp and poorly ventilated areas by making spore:

e from potato starch was the strongest among the alternative forms of plastic. The solubility test showed that

will carry out the same chemical reactions that the industrial chemist used to recycle and reuse paper. The prc

xperiment to find out whether this is true. We boiled a raw russet potato that we had used in the previous inve

ts. 10: Calculate the average temperature of air and created a line graph. MAIN FINDINGS We found out the

lume of oil that could be retrieved. Step 5: Repeat steps 1 to 4 with the other sample materials. Step 6: Repeat steps 1 to 4 with the other sample materials. Step 7: Repeat steps 1 to 4 with the other sample materials.

ties. We repeated the experiment for the second and third beverage after further rest periods. The experimental results are shown in Table 1. The reflectance of the control was 66.37% (highest glossiness), while the reflectance of the other two samples was 55.29% (lowest glossiness). We start by ensuring that the surface is clean and free of any contaminants. The control is a standard white surface (e.g., a piece of paper or a petri dish) in a zig-zag pattern which will be used as a control. Subsequently, similar procedures were followed for the other two samples. The results show that the control has the highest glossiness, while the other two samples have lower glossiness. This suggests that the control is more reflective than the other two samples. The results also suggest that the control is more resistant to sugar intake.

oe, we have connected an ultrasonic sensor to two servo motors to detect the Boccia balls on the ground. The enerated – raising the peak voltage from 132 mV to 171 mV, but varying the mass of fruit peel added did not microbial growth rate is record by colony counting every 24 hours for 3 days. An analysis is preformed base on 3m2-two-storey house with 5 rooms: a living room, a bedroom, a dining room, a kitchen and a toilet, 5 doors, 4 ue light.

every 5 minutes after the incense stick was lit. Using nitrate test kits would allow us to know the concentration ily in terms of plant height, the width of the leaves used, and the number of leaves growing. Photos were also nourishment product. As a physical study, the test conducted included hanging weights on each piece of hair y/bottle, number of fruiting body/bottle, length and width of fruiting body. 3.Main findings + The mating type of s and the growth of the basil plants daily except weekends. Sprouting was observed for one control set-up and coconut oil, almond oil and shea butter, for the medium in which the active ingredients will be mixed into, and ting of 6 green beans placed in garden soil, 5 ml of milk and 5 ml of diluted milk (50 % water) are added to ea to buy for our first babies at home, our experiment's purpose is to find which newborn diaper with 'full indicat luctor and several layers of it, is able to offer good RFID protection. The use of acrylic was driven by its high e t mechanism to use on the knee guard for the elderly. Our knee guard uses Arduino, a open-sourced electror ith 100 g of banana peels and Pot 4 with a mixture of 50 g of crushed egg shells and 50 g of banana peels. A t investigates on the effects of feeding mealworms with bread and how it will affect their consumption rate of t ition of the laboratory scale: potassium hydroxide 0.1M (KOH 0.1M), the coffee grounds are calcinated at 500

that milk does not fix broken ceramics.

ount of light, water and soil was kept constant for each plant. For the fruits peels, we chopped up the fruit peel and identified, namely cycloartenol (1), cochinchinone (3), a-mangostin (4) and mangiferolic acid (5). +The e: an biodiesel, the average kinematic viscosity at 30C, average heat of combustion and cloud point were 0.221c

minimal wastage after using it for experiments
that dry-fit materials are generally
an area of
before placing it in a Styrofoam box filled
(degree Celsius) (degree Cel
navy blue box absorbs a lot of heat from the light
ie
eggs stored in the cardboard egg cartons will
toothpaste and Sensodyne is the least effective
the reliability of our results. From our

ed with soil, the plant was
nly bury a long cast-
until all the liquid evaporated, leaving
d the type of landscaping varied. Temperature
ck curta
oil. We repeated the experiment to
on of the straws were measured by the vol
ells from softening after being soaked for a per

nped on a retort stand
play a role in reducing mic

ss meditation session (active control group
cluded that white vinegar
cord the average height of plants
ers into the holes of
xygen will rise up from the
ea, worm cast and chemical fertilizer to
pt at constant. Plastic bottles were used
olid fuel of the same mass. Longan shell complemen

irs to harness solar energy

orbent, followed by cotton
s. This may trigger allergies in various individuals that cau

no forms of plastic
process of waste paper recycling most often involve
stigation for 8 minutes and me
at the average temperature of the

ng both the dry and wet fl

s present are from th

rat choke on plastics dumped in the ocean. We

window. The smart window cleaner u

ature sensor was not able to detect the tem

e flowers dropped off. Kaplan-Meier survival

as the pH increased. The cel

o function as a light sensor

is the water potential and osmotic pressure of

From our findings, the

ther discs of the same pa

as sugar, vinegar, spring onions, fish s

further time permits. The effec

continuously stirred in d

e collected back and with the help of

n automatically disconnects when power consumption is at a

ch showed best accuracy for steps t

r and faster than their organ

average for each set of data

at steps

it was repeated for three days to obt

g the initial tempera

ill be carried out.

servo motors are attached to two flaps which
increase the voltage gain
the data collected followed by finding and
5 windows, a drum system and a roof li

is of

taken to keep track of the progress

until it splits to measure its

6 single ascospores h
d some of the egg shell set-

use safer mineral active ingredien

ch set-up respectively. The number of bea

or', absorbs more simulat

electrical resistance. B

ic platform. We can tell the Arduino b

.All pots were placed in the same

Styrofoam. Another question is whether older mealworms are

oC for five hours. Activated carbon from c

s into small pieces to max

xtract showed antibacterial activit
m²/s, 12600J/g and 7.7oC respectively. Can