

Stanford Spark

• Fourth Edition:
"TOMORROWLAND"
• NOVEMBER 2020 •
E-MAGAZINE



TRENDS IN THE FUTURE



Kushaan - Lili -
Anika - Megan



The Frequency Theory

Kushaan Anand Thawani

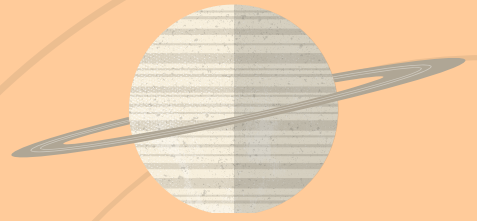
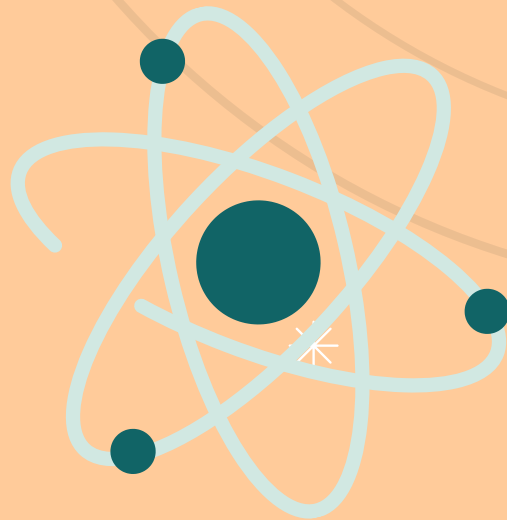
FUTURE TECHNOLOGY

Change The Way of Life

Future technology may be different in the future and I am sure it will change how life works. For example : changing the gravitational energy on the planet, and maybe inventing a tool to stop screen radiation when we are using our gadget. We also can communicate with people virtually. We can have a 3D talk with the person.

I watched a movie about frequency. It's a fiction movie where It said that everything has a different frequency and if an object vibrates at the same frequency of the air, the object will go through anything as air can go through almost everything. It means, if an object vibrates and becomes the molecules of the air it will have the capability to go through anything. That seems impossible, but I believe that this would be there in the future.

"...IF AN OBJECT VIBRATES AT THE SAME FREQUENCY OF THE AIR, THE OBJECT WILL GO THROUGH ANYTHING AS AIR CAN GO THROUGH ALMOST EVERYTHING.."





TIME SAVER TECHNOLOGY

Megan Arianto Phang

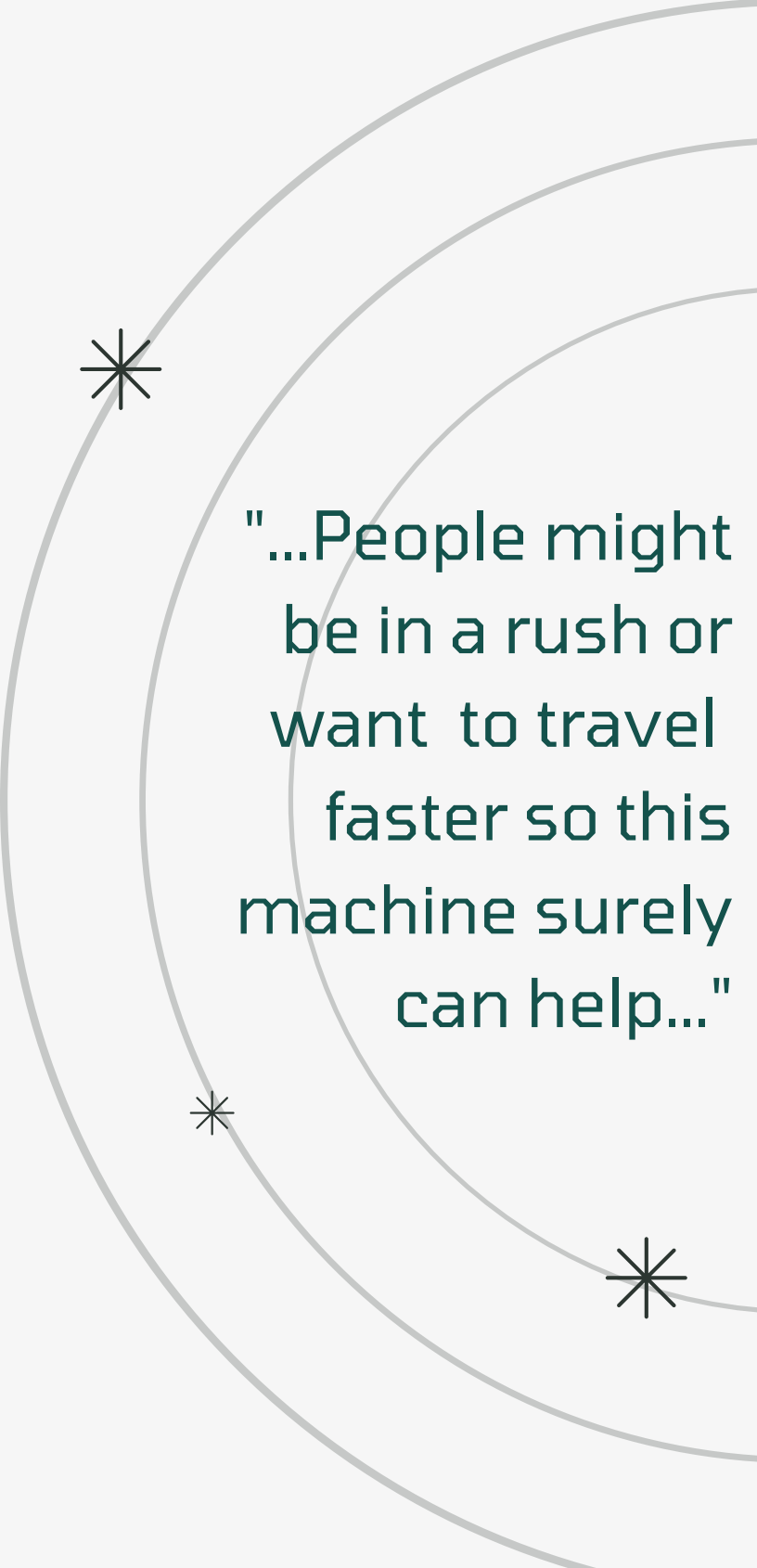
I imagined that in the future there will be a useful machine that can control the traffic lights, It can make the green lamp on instead of the red one but this machine is controlled by the Police. This machine is very strong so it won't break easily. If someone tries to hack the machine, it can identify the person and she or he will end up in prison for years. The machine can fly and it can check on other traffic lights.

**The machine is made in China.
The machine can be shipped to
all around the world. This
machine will be used by the
police and will be owned by the
government.**

In addition, this machine is also equipped with wings to fly so we can go anywhere with it. It has small gold and silver around it. Undeniably, it is very strong and useful.

Lastly, this powerful machine is also equipped with the talking application. The machine's talking ability is useful because in case of emergencies, the people can get information and get help.

MACHINE THAT CAN SET US FREE FROM TRAFFIC JAM



"...People might
be in a rush or
want to travel
faster so this
machine surely
can help..."



ROBOT FRIEND

Liliana Sophia Still

I imagine that in the future there will be a tiny robot that can help you in any way. Like for example when you want to go out to meet your friends, the robot will be there to remind you. When you go for a run and you are running out of the water, it will be there to save you. The robot is also capable of helping you in critical situations. Like when you swim and you are drowning, this amazing robot is ready to give you CPR.

Not only can it help, but it will be your friend too! This robot will be your lifetime friend where you will be accompanied anytime.

"...Not only can it help, but it will be your friend too! This robot will be your lifetime friend where you will be accompanied anytime...."



TRANSPORTATION TECHNOLOGY

Anika Poojary

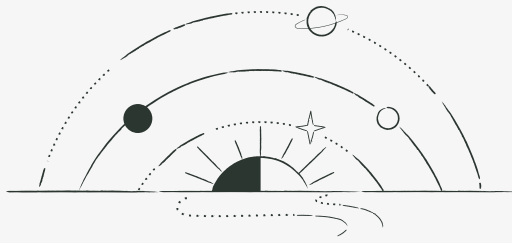
As you know, planes are already there to let you fly around the world. But **what about the future? Will planes still be there?**

I don't think so because in the future, it will definitely be more advanced. Technology will be used in every single thing. For now, let's talk about transportations. In the future, when people want to fly around the world, **I'm pretty sure that planes will not be used anymore so instead they will use rockets!** They'll surely make rockets which are suitable for the Earth's atmosphere. If it's a short distance, some planes will still be used to fly.

Aside from planes, what about trains, cars, bikes and ships? In the future, cars will become flying cars, and people's garages will be above their houses instead of below. Bikes will then have metallic wings which can activate whenever you want. Trains will use electricity or even air to fly.

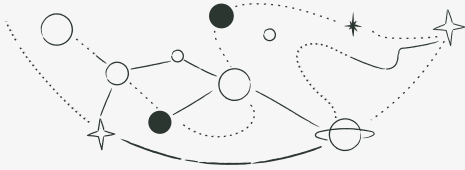
This might also be helpful to the Earth as pollution will be less or won't even exist!

**"This might
also be
helpful to
the Earth as
pollution
will be less
or won't
even exist!"**



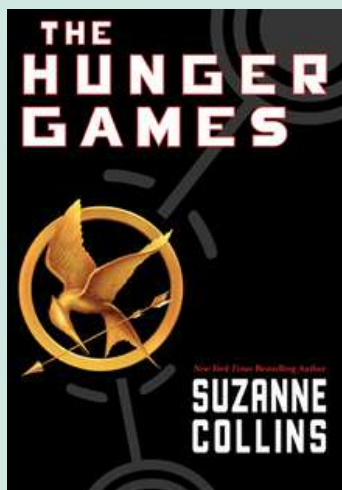
UTOPIA IN DYSTOPIA

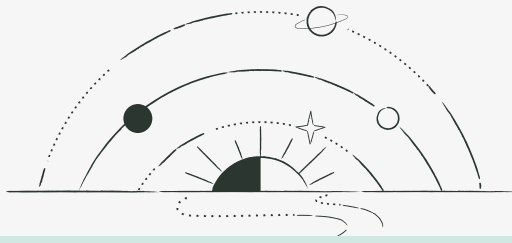
By: Alycia Caitlin



Dystopia is easily found in today's entertainment; from books to movies, it is available everywhere. However, utopia is not as common. In short, utopia is the opposite of dystopia. While dystopia is highlighted by death and destruction, utopia is depicted as more of a paradise. The irony is, utopia and dystopia are usually seen right next to each other.

It is not uncommon for dystopia to stand alone. Some fully dystopian novels do exist. 'The Hunger Games' by Suzanne Collins and 'The Maze Runner' by James Dashner are good examples. However, it is quite rare to be able to find utopia alone. This is because utopian universes are basically perfect. Stories can only be captivating when a conflict exists. This can be done by making a sort of conflict. By either making the characters go on an adventure, or even finding a problem that needs an immediate solution. With utopia alone, this cannot be done. It simply would be too boring.

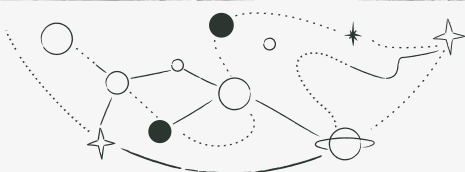




This is why utopia is sometimes inserted into dystopia, making the story two extremely different moods. Take the 'Divergent' trilogy by Veronica Roth for an example. At the start, everything is seemingly perfect. Everyone has a purpose to do, no one is in poverty and conflict doesn't exist. Yet. A few chapters later and the main characters find distress and conflict emerges. Somehow, the novel is now no longer utopian and has changed tracks and become dystopian.

This happens in most entertainment that is labelled as dystopian. Examples include: 'Matched' by Ally Condie, 'Warcross' by Marie Lu and even the TV show 'The Good Place'. They all follow the same pattern to make complex storylines. They make a 'perfect' universe, make the characters find a problem worth solving and then reveal the world as a ruination.

In conclusion, dystopia is a huge part of entertainment. Whether it comes in the form of novels or a Sci-Fi movie, dystopian worlds will feature a ruined and broken down reality. What is interesting is the fact that utopia, its opposite, can be inserted into the storyline to make the ultimate contrast.



WE ARE BETTER THAN WE THINK WE ARE

Long long ago
We had Measles, but it didn't kill us all
We had Plague, but it didn't kill us all
We had Smallpox and Spanish flu,
Yet we didn't die out
We had Rabies, Sars, AIDS and many more,
And yet we survived
We have a solid genome,
Selected by nature,
Over millions of generations
But we opt not to believe in it
Instead we live in holes,
Being afraid of the end.
Death is a stage of life
No one is going to skip that stage
Live a cheerful life
Not a depressed one in hiding
This flu will kill a few unfortunate souls,
But not all of us
We will survive, as a species
But not as individuals

*A Poem by Jay Raj
4 November 2020
Bandung, Indonesia*

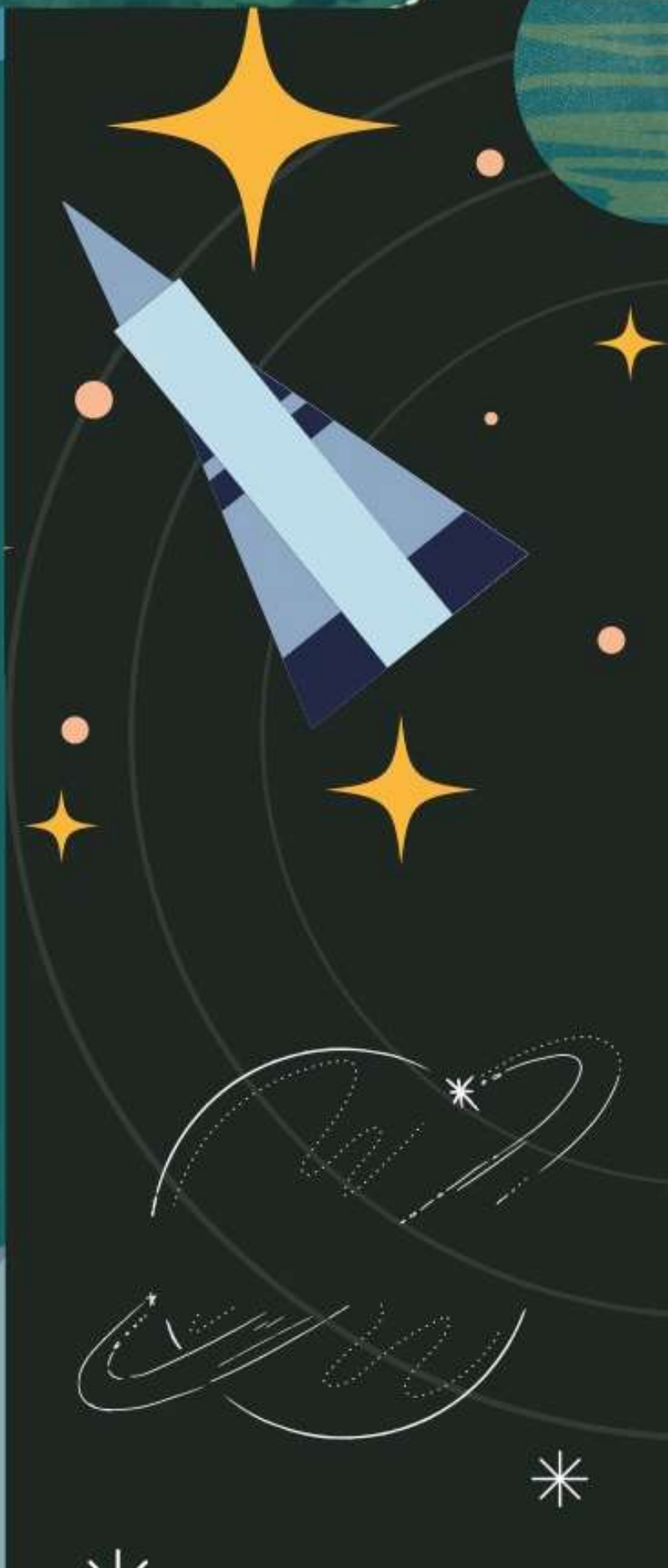
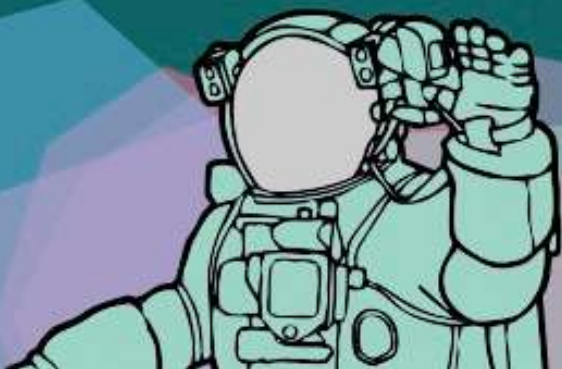


By: Meidina Raudhetein



THE FUTURE OF SPACE EXPLORATION

Have you dreamt about humanity reaching another star? Or will we be able to settle human colonization on another planet? Even a functioning city on the moon? Well, those are certainly some big aspirations, but best believe they are not impossible! Our universe is vastly filled with millions of wonderful celestial matters—drawing an everlasting fascination for as long as humans live. For that reason, space exploration is greatly important in fueling science and discovery. It aims for humanity to go on journeys and see beyond just our planet Earth with revolutionary technology. In the coming years, we can look forward to many awesome exploration missions that will embark to space like never before!



1

Breakthrough Starshot

Lasers are very real! The nearest star to our Sun is Alpha Centauri with a distance as far as 4.3 light years away. Keep in mind that it takes 4.3 light years just for light to reach Alpha Centauri, and the speed of light is already very fast! First, NASA's 'Breakthrough Starshot' project is to launch a rocket that once in orbit, will shoot tiny ships as many as 1000 to sail to Alpha Centauri. Just like ships on Earth sailed by the wind, the sails attached to the tiny ships will be lasered one at a time. After being shot out by lasers, the tiny ships travel 20% the speed of light in only 10 minutes. This way, they can possibly reach Alpha Centauri in only 20 years! The ships will be able to capture pictures of mysterious planets in our neighboring star system. Isn't that so cool? This mission is one of the most anticipated events of the 21st century!



2

James Webb Space Telescope

We all know the universe started after the Big Bang. But could we take a look at how everything really started? Well, the James Webb Space Telescope will be the largest and most powerful telescope ever to launch into space by 2021. This massive space telescope will be able to see what the universe looked like around 200 million years ago after the Big Bang. It will be able to search for the first galaxies formed after the Big Bang (way before humanity!), further observe how galaxies evolve, and explore mysteries of the universe's origins. It is also said to be 100 times more powerful than the well-known Hubble Telescope!



"Somewhere, something incredible is waiting to be known" - Carl Sagan

3

ARTEMIS II

Next-Hybrid-Propulsion Spacecraft performing autonomous flight and
ground systems performance beyond Low-Earth Orbit

The Artemis Mission

Guess what, we are actually coming back to the moon! By 2024, NASA's Artemis mission will land the first woman and next man on the moon since 1972. Launching this mission involves the most powerful rocket in the world ever built, the Orion spacecraft to carry the astronauts, and a lunar station called 'The Gateway'.

The Gateway is a small space station that will be orbiting the moon for Orion to dock, and for astronauts to study further about human body response in deep space. By 2028, NASA aims to have a colony on the moon surface. Even better, the Artemis program not only will establish a manned moon base, but it also acts as a fundamental checkpoint for preparing astronauts to go to Mars. This mission will open up many more opportunities for deeper space exploration!

4

Europa Clipper

Did you know that one of Jupiter's moon, Europa, could possibly support life? NASA's Europa Clipper spacecraft will go on a mission by 2024 to Jupiter's orbit and help scientists investigate this moon in further detail. Europa's surface is made up of layers of thick ice crust and beneath it lies a vast ocean of liquid water! Of course, water is the key element to finding evidence for life. The spacecraft that will be journeying is built with complex instruments that will reveal more data such as chemical compositions of Europa and the ocean world beyond Earth!



<https://www.sciencefocus.com/space/10-future-space-missions-to-look-forward-to/>

<https://www.nasa.gov/specials/artemis/#~:text=With%20the%20Artemis%20program%2C%20NASA,the%20end%20of%20the%20decade>

<https://www.popularmechanics.com/space/deep-space/a14392231/james-webb-space-telescope-researchers-gear-up-for-science/>

<https://www.forbes.com/sites/jamiecartereurope/2020/10/30/prepare-to-hold-your-breath-a-year-today-will-see-a-88-billion-shift-in-our-view-of-the-cosmos/?sh=3be66c5d6133>

<https://www.planetary.org/space-missions/europa-clipper>

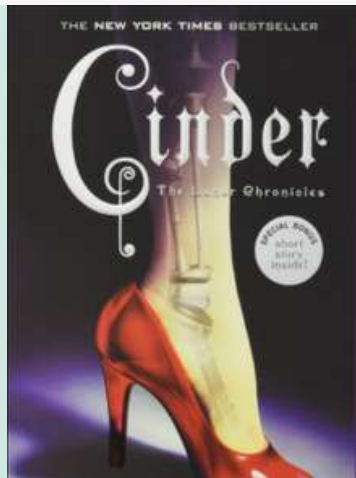
FEELING FUTURISTIC?

Here are a few book, movie, and TV show suggestions from the spark team!

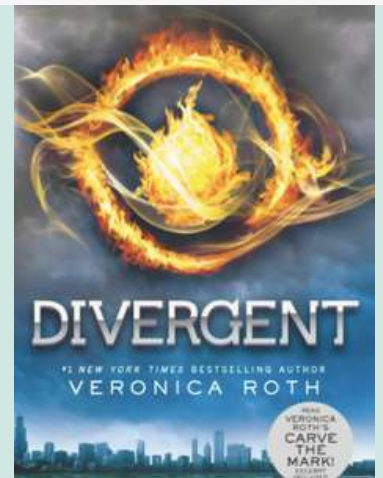
BOOKS



The Loneliest Girl In
The Universe -
Lauren James



Cinder -
Marissa Meyer



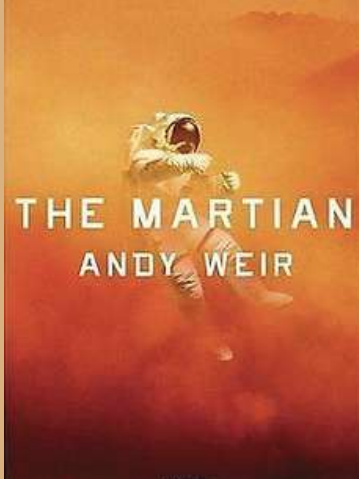
Divergent -
Veronica Roth



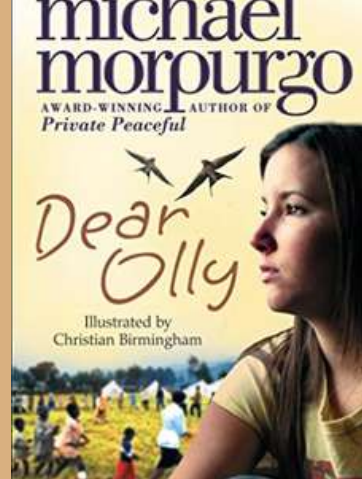
Warcross -
Marie Lu



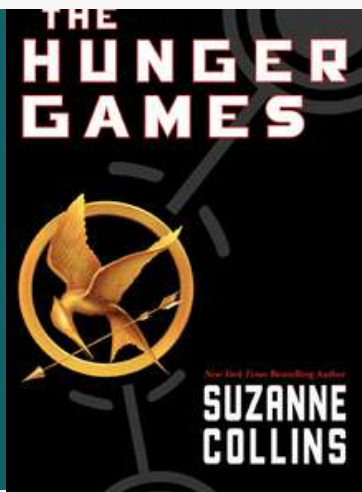
Ready Player One -
Ernest Cline



The Martian -
Andy weir



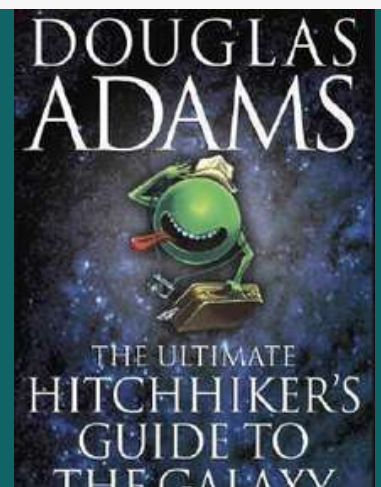
Dear Olly -
Micheal Morphugo



The Hunger Games -
Suzanne Collins



A Wrinkle In Time -
Madeleine L'Engle



The Ultimate Hitchhiker's
Guide To The Galaxy-
Douglas Adams

MOVIES / TV SHOWS



The Mandalorian



Zathura



Pacific Rim



Marvel's Agents Of Shield



Avengers: Infinity War



The Good Place



Tomorrowland



Cloudy With A Chance
Of Meatballs



Wall-E



Big Hero 6

FALLOUT

A short comic story

By: Cecilia Ardiyanti

Trigger warning: Blood and Death

is everyone ready?

1.



Yes Captain

2.



alright everyone

3.



we have a couple of different
tasks we have to do

4.



I expect everyone to finish
them before tonight.

5.



ooo

6.



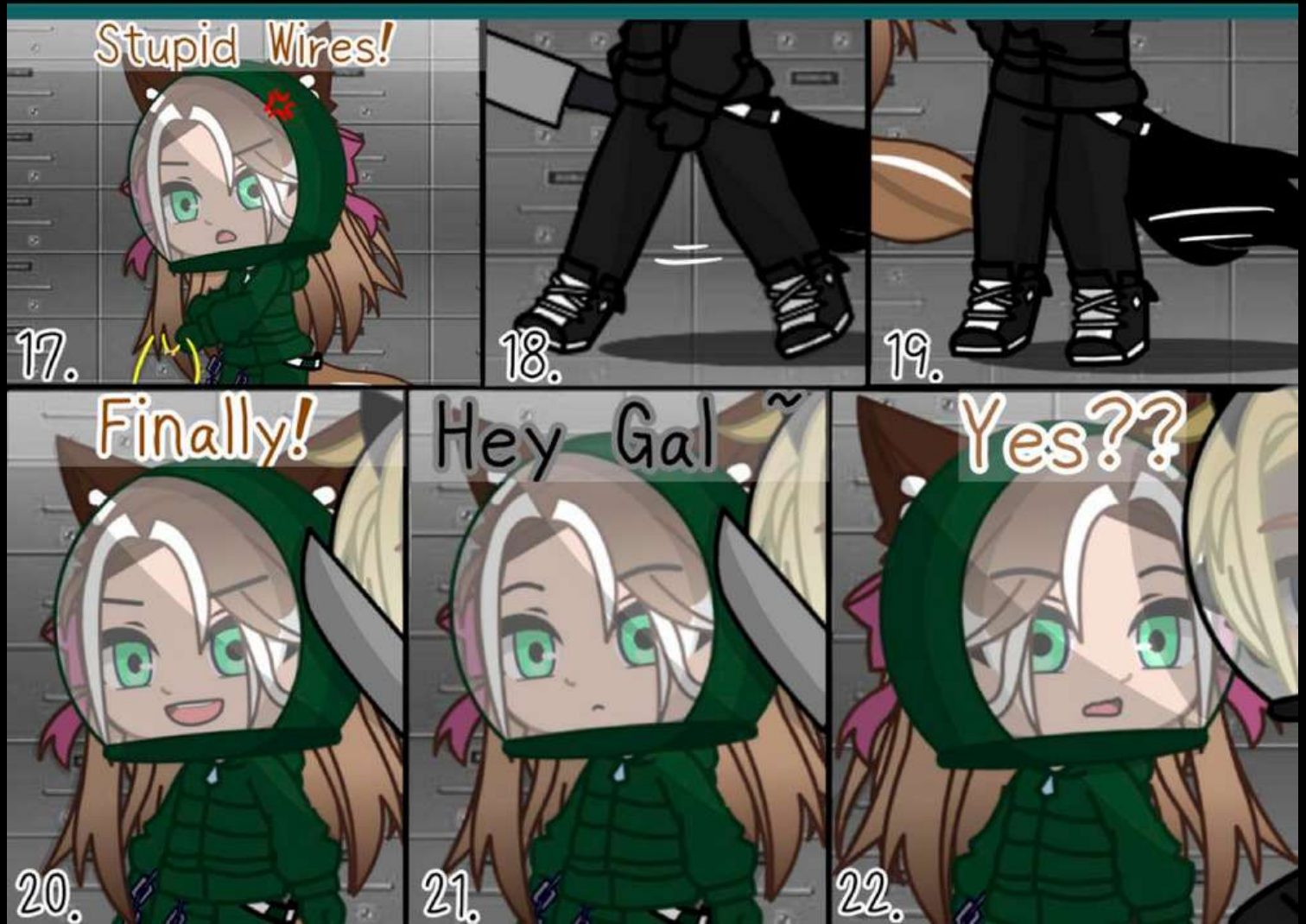
Good Luck everyone

7.





Afterwards





23.



24.

25.

26.



27.



28.



29.

When everyone
gathers up

30.



31.



32.



33.



34.

You're lying!

35.

Go see for yourself sir

36.

?!

41.



37.



38.



40.



42.

I was doing trash chutes in 02 before the meeting was called.



45.

What about you, L9?



47.



49.



43.

I was in fueling up lower and upper engine, sir



48.



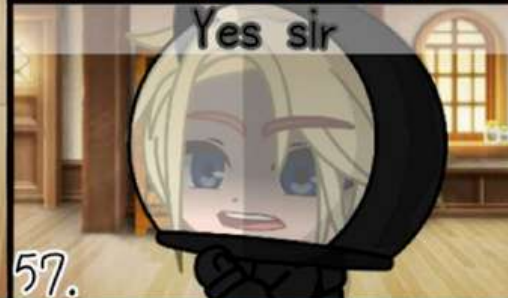
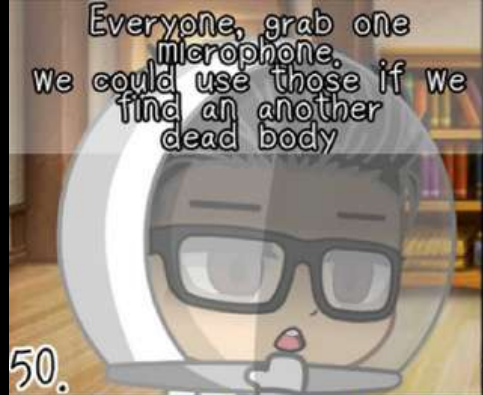
44.

What task were you guys doing?

I was in admin doing download, sir.



46.



Sorry not sorry



64.

65.

67.

70.

68.

71.

69.

72.

In admin

66.

hears footsteps

?!

who's there?!

It's just me, Lg..

what are you doing here?

I'm about to do the card swipe task

Well you have to wait
since I'm not yet done.

73.



76.

Just thinking.. why?

79.



Oh sure!

74.



77.



80.

you just look really serious
right now

what are you doing Lg?

78.



81.



Later

75.



82.



84.



87.

Honestly, me too.

I think I have an idea on
who the killer is

83.



I think it's Mackenzie

85.



88.

Do you see that vent
behind you?



86.

I haven't seen him
anywhere



89.

Yeah..

He could've used those vents as a passage to each room on this ship.

90.



92.



91.



93.



what's wrong cec?



94.

Watch Out!

95.

97.



96.

What was that
fo-

98.



99.



100.



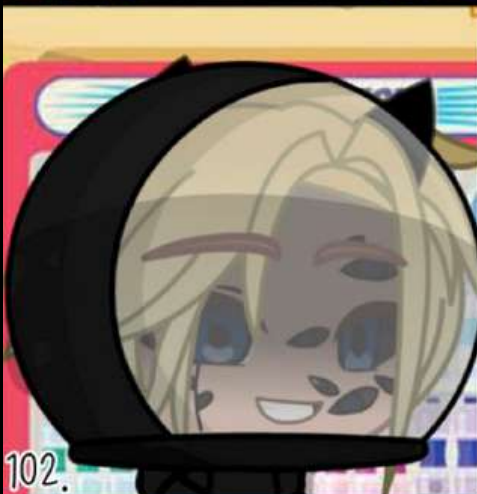
101.



103.



105.



102.



104.



106.



107.



108.



111.



114.



109.



112.



115.



110.



113.



116.

I was in admin doing card
swipe with Cec.

117.

I did saw you pass
by security

120.



123.

What about you Mackenzie?

118.

That's true

121.

I think it's Lg
honestly

124.

are you kidding me?

I was in security before
I went into admin

119.

: Wait what?...

122.

He's the one who
stabbed Cec!

126.

Hey!

127.

I agree...

130.

He killed your best friend
right in front of me!!

133.

Why do you keep
accusing me?!

128.

It's like you want to shift
the attention to someone else
instead of you.

131.

134.

That's really
suspicious

129.

Mackenzie is the
killer!

132.

Alright.. I trust you.

135.





ART CORNER

Artist of the Month



Kevin William Bryan Hoo, Primary 1

This month, Kevin explored the blowing technique using a straw in his watercolour painting. The leaves were coloured using cotton buds and Kevin finds this step the easiest. The hardest part is making the branches of the trees using the brush and the blowing technique. Kevin loves doing the art pieces.



Maila Detchie Deloso Jumao-As

ART CORNER

Recycling Crafts



Marco Aragon Ryusan, Primary 5



Marco Aragon Ryusan, Primary 5



Hilvisha Caliana, Primary 6



Maila Detchie Deloso Jumao-As



INTERDISCIPLINARY PROJECT SEMESTER 1 - 2020-21 SECONDARY DEPARTMENT

A Project for Water Sustainability

In a TED talk, a man demonstrates his invention in creating a simple work, yet powerful water filter. **This water filter could turn filthy, contaminated water like water from the sewage, added with the mud. The filtrate water is pure water, smells good and fresh, one hundred percent safe to be drunk.** It can be used to filter water for thousands of times. This water purifier has been used to help people in disaster situations, with a clean water crisis. It is a way cheaper solution and also environmental friendly compared with giving drinking bottle water donation. *

Along with this, Stamfordians also challenged to create a water purifier in IDP 2021. They have to compete in making the best water purifier based on some criterias like TDS concentration, pH and the chosen materials. They are also challenged to create the best video advertisement in three different languages ; Indonesia language, English and Chinese language.

Within a short three days, they have shown unique and futuristic ideas in their creation. And it's not only about water filter technology, it is also about showing leadership, teamwork, problem solving and totality in work.

Online systems and limitation in materials has been a great challenge in this IDP, but again Stamfordians have proven that they can solve the problem together.

Lastly, technology to solve problems in clean and drinkable water are still developing. The world needs a lot of thinkers in the future to solve the global water problem. This year IDP has been a place to cultivate fresh and creative ideas, enjoyable yet valuable learning experience.

AN ANSWER FOR WATER CRISIS IN THE FUTURE

LINK FOR THE IDP PRESENTATION:

[HTTPS://DOCS.GOOGLE.COM/PRESENTATION/D/1Q9LYGYGZWOKSLH21ODDY3ZYBU4PUW6EYRDGUEVDXKMM/EDIT?USP=SHARING](https://docs.google.com/presentation/d/1Q9LYGYGZWOKSLH21ODDY3ZYBU4PUW6EYRDGUEVDXKMM/edit?usp=sharing)

LINK FOR THE IDP VIDEOS:

[HTTPS://YOUTU.BE/_LNWQGM9KU](https://youtu.be/_LNWQGM9KU)



* <https://youtu.be/rXepkIWPhFQ>, Michael Pritchard:
How to make filthy water drinkable.

UN AND EARTH DAY 2020

Act through Peace and Kindness

50
YEARS
EARTH
DAY 2020

2020 IS CHALLENGING ALL OF US

There are many things happening in the world in 2020. The biggest challenge for the whole world I think is facing the pandemic, which affects almost all aspects. The novel coronavirus disease (COVID-19) is having an unprecedented impact around the world, both in health and socioeconomic terms. It is a must now for everyone to give contribution. Last month, through acts of peace and kindness, Stamfordians showed their contribution for society and the earth. Although this action is limited by activity that can be done from home, hopefully, the spirit to contribute in kindness will be a strong self driven act for the benefactor and also will motivate others to give in charity, thus extending the impact to a bigger scope.

FOOD SHORTAGE AND ENVIRONMENTAL CRISIS

As the world is struggling even harder with food shortage and environmental crisis, some students show kindness through planting at home. They show how to plant using the seed of waste vegetables at home. If this habit is followed in every house, I believe this could be one of the solutions for the nutrition and food crisis. This will prevent the usage of pesticides also to a certain extent and thereby be a kindful act to Mother Earth. Maybe now it is about creating awareness in planting, but who knows in the future, these students will work for innovation in the food and farming sectors.

SHOWING THAT WE CARE FOR EACH OTHER, THROUGH GRATITUDE CAN LIFT UP THE MENTAL STRENGTH AND BRING BACK OPTIMISM IN FACING ANY PROBLEMS

Other students show kindness by being grateful. Some showed gratitude through making cards for their family members held closely to the heart. Most people are dealing with hard situations. Showing that we care for each other, through gratitude can lift up the mental strength and bring back optimism in facing any problems. Maybe now, what they can do is simple actions to cheer up or reduce the stress in life of another, and these simple acts can inspire them to work as counseling psychologists in the future. The world will need people in this area as more and more people turn to psychology for help with their problems.

THROUGH THE UN AND EARTH DAY CELEBRATION, WE PRACTICE TO SHARE OUR CONTRIBUTIONS TO THE WORLD.ACROSS A WIDE RANGE.

We all need to remind each other that being together through continuous acts of peace and kindness, we can lighten the world's burden. Through the UN and Earth Day celebration, we practice to share our contributions to the world.across a wide range.



BY ERLIN ANISA

ASK!

MASTER TIP



"What is your favourite breakfast? And how do you cook it?"

- Hungry boy

Oh, thank you for your question!

Food is indeed my favourite topic. Most of the time, I cook scrambled eggs for my breakfast. It is easy and fast to cook. Plus, if you cook it well.... ohhhh... heavenly.

My favourite scrambled egg recipe is the one shared by Gordon Ramsay, the British Michelin starred Masterchef. I will share it with you here, because I am very generous.

Recipe for two big eaters or three small eaters.

Ingredients:

- 6 cold eggs
- 15 g butter
- Salt and pepper
- Crème fraîche or sour cream
- Chives (condiment)



My name is Master Tip.

*In my very own column, I will answer any question you might have about **ANYTHING** under the sun! Whatever burning question you have churning in your belly, spit it out and **ASK** me!*

Write to: mastertip@stamford.sch.id

How to cook:

1. Crack 6 cold eggs into the saucepan.
2. Add the butter. For smaller batches, use a 2-to-1 eggs-to-butter ratio.
3. Put the pan on high heat.
4. Stir continuously with a rubber spatula—don't whisk—making sure to scrape the bottom of the pan.
5. After 30 seconds, take the pan off the heat. Keep stirring. After about 10 seconds, put back on the heat. Repeat for 3 minutes.
6. In the last minute, season the eggs lightly. For extra creamy texture, stir in 1 tsp of crème fraîche.
7. Plate and garnish with chopped chives.

I know how difficult it is sometimes to interpret the instructions on the recipe. On the left column after the ingredients list is the QR code to the YouTube video of this recipe.

I highly recommend making this for your parents on a Saturday/Sunday morning before they wake up. It is a tried and tested recipe to delight!

(PS: It can be a free get-out-of-jail card for the next time you get into trouble!)

Source: <https://www.gordonramsayrestaurants.com/recipes/scrambled-eggs/>

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**THANK YOU FOR
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HAVE A GREAT
HOLIDAY!**