Ryan S.T.E.A.M. Academy

Student Presentation

Created and Presented

By

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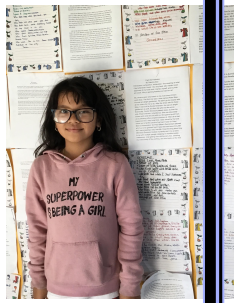
Hello!

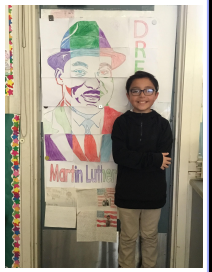
Welcome to Ryan S.T.E.A.M Academy! To introduce ourselves, we will be listing some details about us.

Sabrina

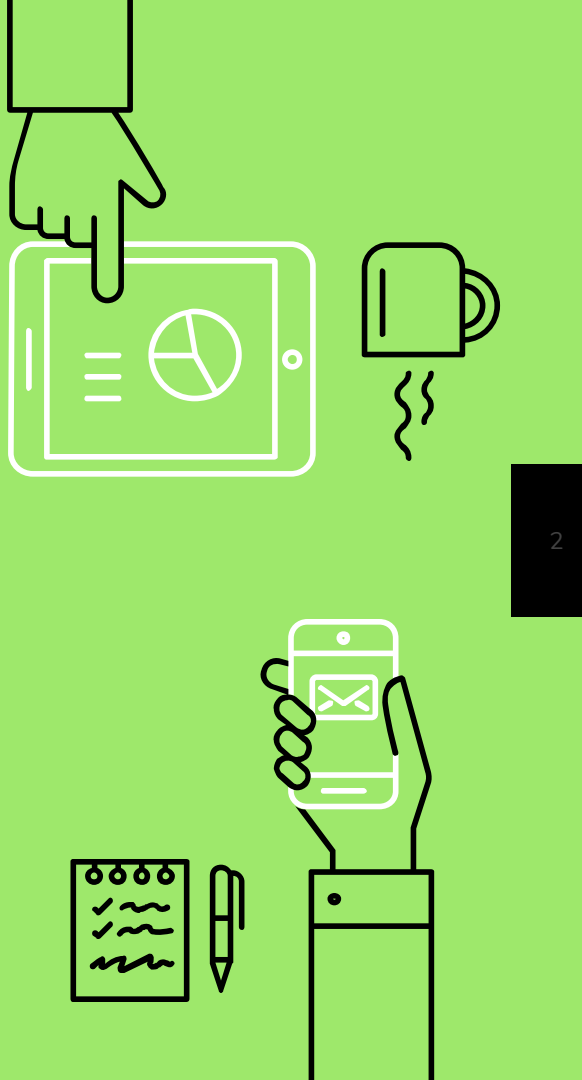


- 10 years of age
- 5th Grade
- Favorite subject: Math/S.T.E.A.M
- Homeroom Teacher: Mrs.Attia
- Joined Ryan S.T.E.A.M Academy in 2013
- Skipped 1st Grade

Joshua



- 10 years of age
- 5th Grade
- Favorite subject is History/Math
- Homeroom Teacher: Mrs.Ghosh
- Attended school since Kindergarten
- Plays Football and Basketball



Engaging in S.T.E.A.M

S.T.E.A.M.= Science, Technology, Engineering, Arts, and Mathematics

All of the students are required to take part in the “Engineering Design Process” through a design challenge. They do the steps listed:

S.T.E.A.M Evolution

2014-2015 School Year

-S.T.E.A.M is introduced to our school
-Only for 4th graders and 5th graders
-Collaborative STEAM vision

2015-2016 School Year

- S.T.E.A.M is now available for all grade levels
- S.T.E.A.M becomes bigger part of school.
- Parent STEAM workshops

2016-2017 School Year

- Better understanding of S.T.E.A.M to all students
- S.T.E.A.M. related field trips and assemblies
- Partnership with SJPL (makerspaceship), Adobe

2017-2018 School Year And Beyond...

- More focus on environmental engineering
  - Vertical Garden
  - Composting
- Robotics Club & Mouse Squad
- Coding Night
- And upcoming...

What We Do in S.T.E.A.M

In S.T.E.A.M, we are working on many skills such as collaboration, creativity, and critical thinking.

Collaboration

During this time, students are expected to do the following while working with others:

- Talk with other students about the subject
- Cooperate in any way they can
- Contribute to the project equally

Creativity

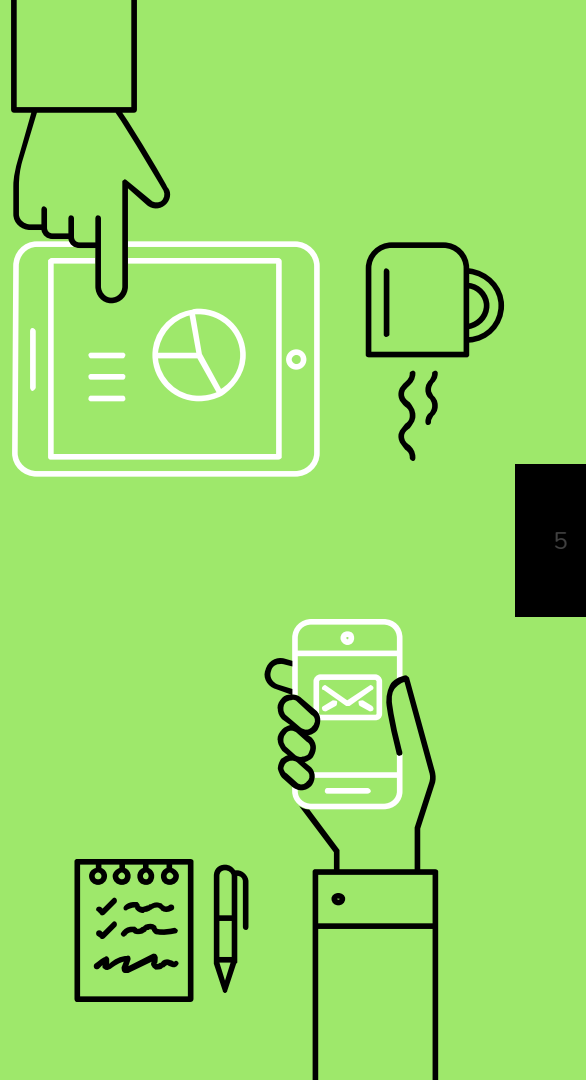
In S.T.E.A.M, students are allowed to have a very creative mind by designing plans for their project.

- Designing plans for project
- Figuring out how to make things better

Critical Thinking

Students are constantly improving their end product by testing what they have created.

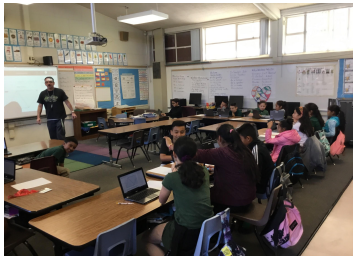
- Note taking /documentation
- Students record themselves doing the project to see what they can do better
- Students talk to their peers to see if there are any pieces of missing information to use
- Test materials/products



Extracurricular Activities

Mouse Squad

Hosted by Mr. Castongia, Mouse Squad is an afterschool program that teaches you how to use computer programs and do computer science.



Robotics Club

Started in 2017, Robotics Club is an afterschool program that teaches students how to be engineers by making different kinds of robots.

Art Class

Taught by Mr. Restrepo, Art Class is a fun and educational way to learn new art techniques. These classes are available to all grades, parents, and staff.

School-Related Activities

Assemblies

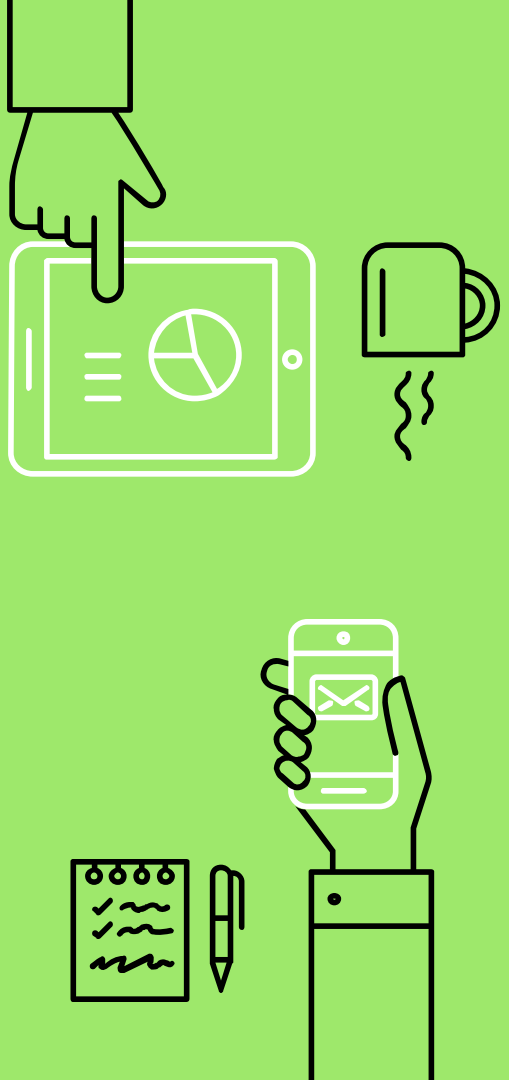
At Ryan S.T.E.A.M Academy, assemblies are a way to apply what we've learned to real life situations. This year we had a skateboarding science assembly and we are looking forward to our robotics assembly in a week.

Field Trips

Ryan S.T.E.A.M Academy plans very good and educational field trips for us.. Most of the time, we go to the Tech Museum of Innovation because it is related to S.T.E.A.M. Field trips give us the chance to explore other places outside of school that are fun and academic. We also are so privileged to be taken on field trips where we get on-site tours.

Parent Engagement

Parents are a huge part of our S.T.E.A.M community. That is why we set up activities for parents to enjoy. Activities such as S.T.E.A.M related walking field trips, storytime with their children, and S.T.E.A.M related workshops. All of these activities are made because our school wants the parents to have the same experience that their children go through in S.T.E.A.M as well.



Personal Impact

Here are some ways how S.T.E.A.M can impact our lives:

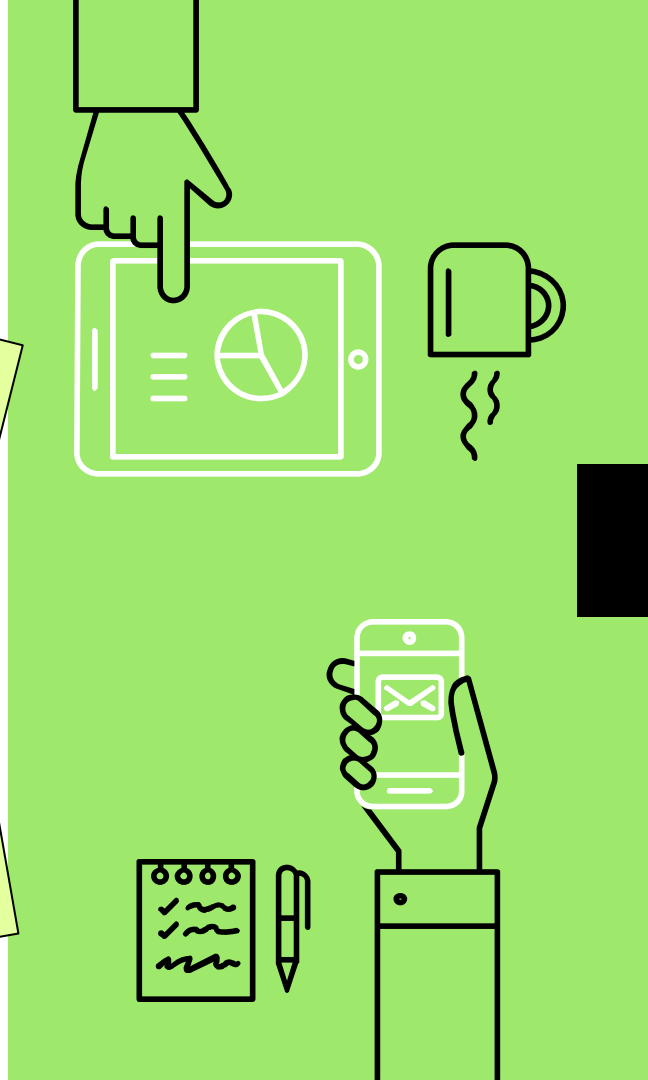
S.T.E.A.M can **teach** you **how** to **solve real life problems**.

S.T.E.A.M can **allow anyone** to be **creative** and **start** to get their **engineering self** on!

There will be **students** giving **their opinion** on how **S.T.E.A.M** has **impacted** their **life**, and their favorite **S.T.E.A.M project.**

By **knowing S.T.E.A.M**, it will **improve** your **chances** in getting a **better college education** and/or **scholarship.**

S.T.E.A.M can **potentially influence** your **life** by giving you a **better reputation** for **any job** in the **future**.



Student Interviews

“Solves problems in the real world”

“Understand how things work in my life”

Future

Over at Ryan S.T.E.A.M Academy, this is just the beginning of how we are getting to do S.T.E.A.M. We are expecting to do more things in these programs/subjects:

Environmental Engineering

- Focusing on “Environmental-Engineering” projects
- Engaging types of S.T.E.A.M we can do with the environment

Vertical Gardens!

Examples of Compost Jars:

Composting

RYAN STEAM ACADEMY

I ask. I imagine. I plan. I create. I improve.

Everyday, when we pass by these murals, we feel and have the mind of an engineer and we hope you do, too!!

Thank you for listening!

Any questions?

Thank you to:

Mrs. Katz for giving us this wonderful opportunity,

Mr. Castongia for allowing us to use his devices to help us make this presentation,

Ms. Pellegrino for helping us with all of the stuff we didn't know how to use,

And all the teachers for letting us interview their students.