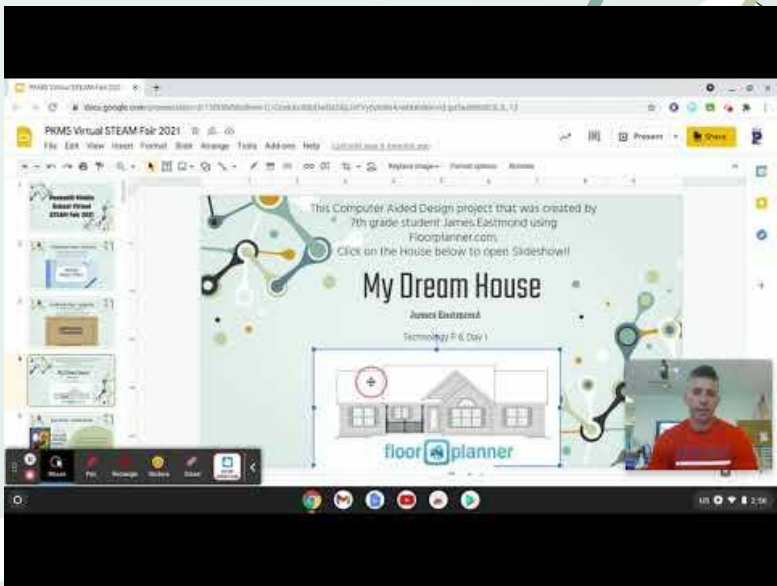
Peekskill Middle School Virtual STEAM Fair 2021

6th Grade Projects

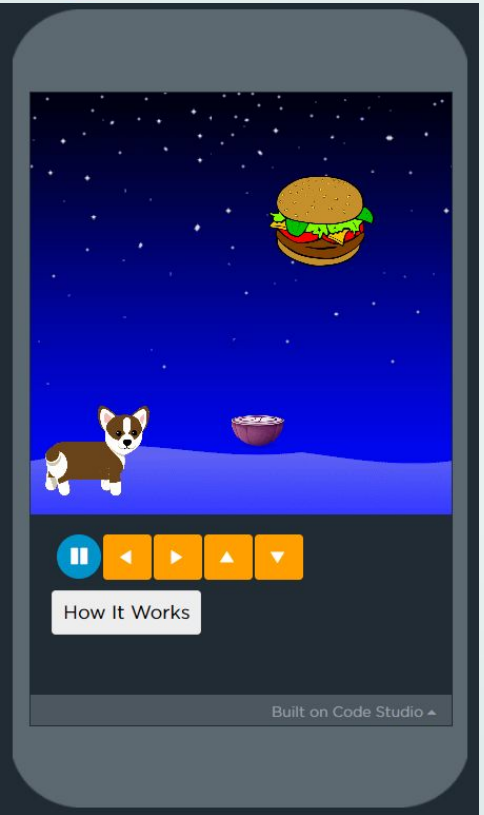
STEAM Fair 2021
Introductions



My Body System Project - by Lily Counts

This body system project was created
by 6th grade student Lily Counts.
Click the slideshow below to open!

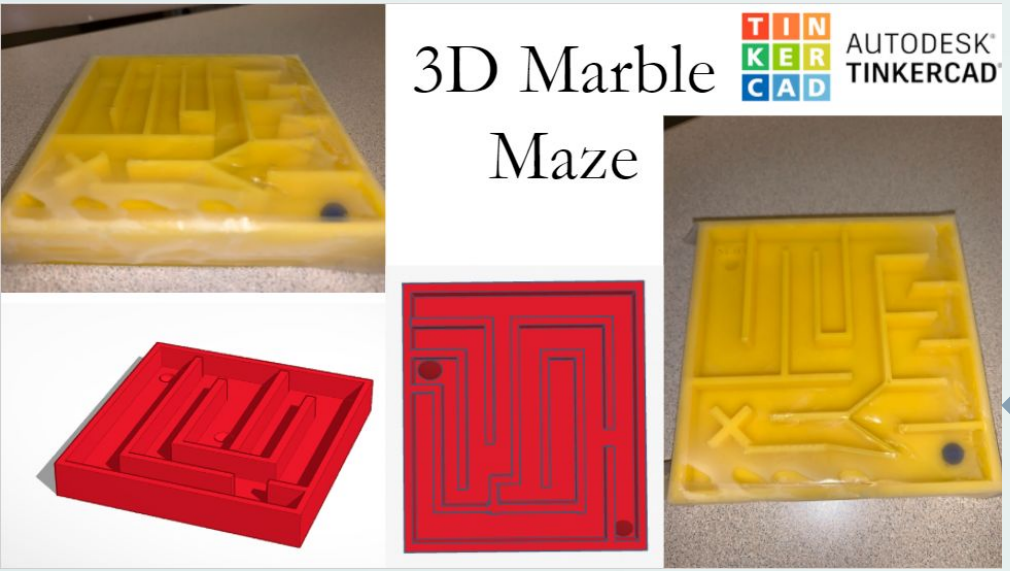
Virtual Pet game - by Zulay Chunir Guerrero



Click the app screen to open! **Be sure to click "view code" to see how the app was created!** You can even send the app to your phone!

This game was created by 6th grade student Zulay Chunir Guerrero. It was built using Code.org's Sprite Lab as the platform and Javascript as the programming language. Try her virtual pet game by clicking on the app screen to the left!

3D Printed Marble Maze - by Jason Villa



This marble maze was designed and 3D printed by 6th grade student Jason Villa. The maze was designed to a 7mm diameter 3D printed marble from start to finish.

Click the screenshot to the left to view the process!

Click here to view the completed project on TinkerCAD! Be sure to view it in 3D.

Cell City - by Genesis Saca

This project was created by 6th grade student Genesis Saca. Click the screenshot below to see her Cell City project and learn all about cells!

The Digestive System - by Max Ferrer

This video was created by 6th grade student Max Ferrer. Max created an experiment that simulates the digestive system of the human body. Click the screenshot to view his video and experiment!

You be the Chemist Challenge

This year, Peekskill Middle School had three teams compete in the You be the Chemist Challenge. Each grade had their own team of students. Click the grade links below to watch their videos!

6th grade

7th grade

8th grade

YOU BE THE CHEMIST™

7th Grade Projects

Can Milk Make Plastic? - by Kayla King

This experiment was conducted by 7th grade student Kayla King.
Click the slideshow below to open the slideshow and view the experiment!

This Computer Aided Design project that was created by 7th grade student James Eastmond using Floorplanner.com.
Click on the House below to open Slideshow!!

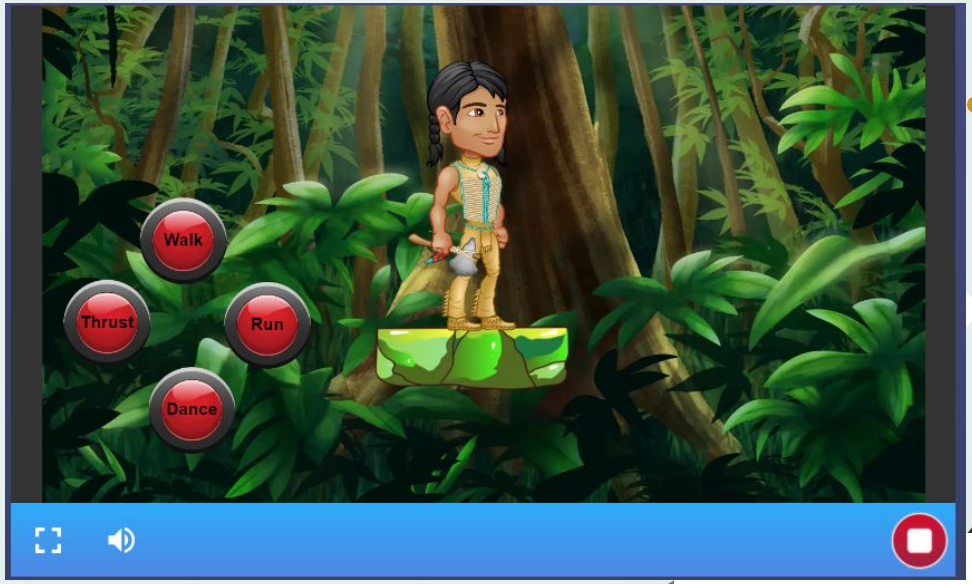
My Dream House

James Eastmond

Technology P 6. Day 1

This Animation Board was created by 7th grade student Jonathan Jaden using Tynker.com.
Click on the image below to open Slideshow!!

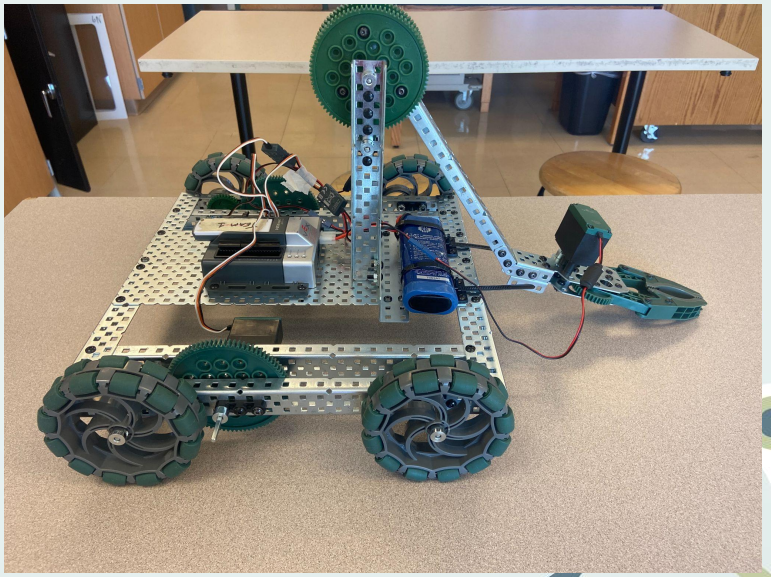
Animation Board



Jonathan Jaden

This Vex Robot was created by 7th grade student Kaden Mercer.
Click on the image below to open Slideshow!!

VEX BATTLE BOT



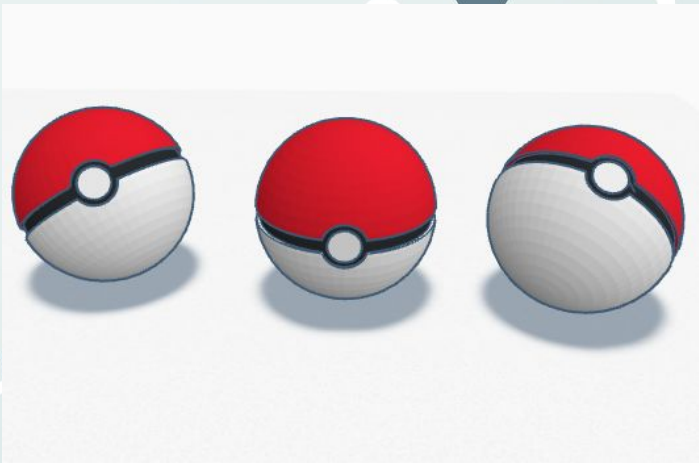
Kaden Mercer

3D Printed Pokeball - by Lucio Zhingri Molinelli

This Pokeball was designed and 3D printed by 7th grade student Lucio Zhingri Molinelli.

Click the slideshow to the right(top) to view the screenshots from start to finish!

Click the screenshot to view the completed project on TinkerCAD! Be sure to view it in 3D.



24 Math Game - by Dominick Morocho

EXAMPLE:

24® Game Single Digits Card

4 x 3 = 12
2 x 1 = 2
2 x 12 = **24**

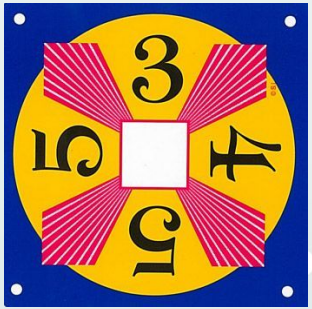
or

4 + 2 = 6
3 + 1 = 4
6 x 4 = **24**

Now solve this 2 Dot Card!

The object of the game is to make 24. You can add, subtract, multiply and divide. Use all four numbers on a card, but use each number only once. There is at least one solution to every card.

Sample Cards



The 24 Math Game project was completed by 7th grade student Dominick Morocho. Object of the game: Make the number 24 from the four numbers shown. You can add, subtract, multiply and divide. Use all four numbers on the card, but use each number only once. You do not have to use all four operations. All number nines have a red center, so you can tell a nine from a six.

See if you can solve the sample cards to the left!

Click the videos below to see Dominick's project!

Rules of the Game

Sample Card

This Tag Game was created by 7th grade student Joshua Noles using Tynker.com.
Click on the image below to open Slideshow!!

Joshua Noles

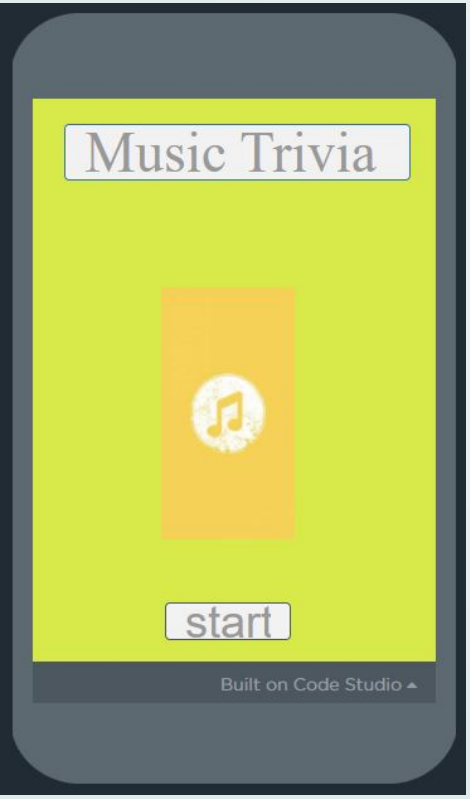
8th Grade Projects

Guess the Sport - by Yamile Gonzales

Click the app screen to open! **Be sure to click "view code" to see how the app was created!** You can even send the app to your phone!

This app was created by 8th grade student Yamile Gonzales. It was built using Code.org as the platform and Javascript as the programming language. Try out her Guess the Sport (Emoji Edition) app by clicking on the screen to the left.

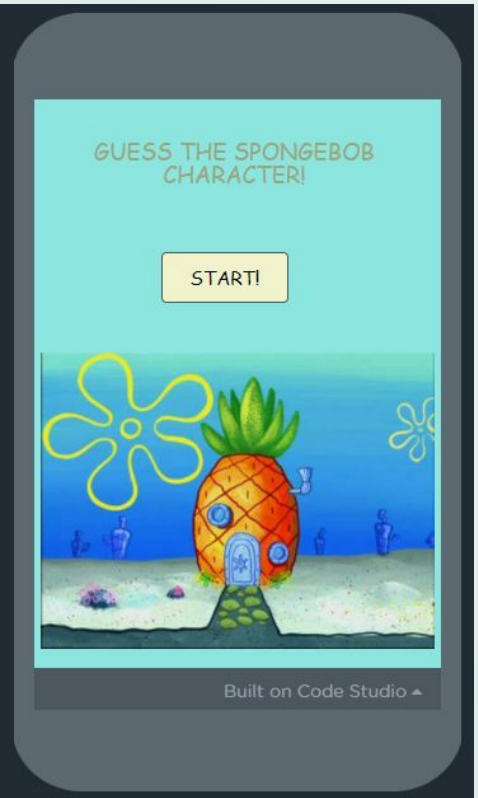
Music Trivia App - by Jamille Roca



Click the app screen to open! **Be sure to click "view code" to see how the app was created!** You can even send the app to your phone!

This app was created by 8th grade student Jamille Roca. It was built using Code.org as the platform and Javascript as the programming language. Try out her Music Trivia app by clicking on the screen to the left.

SpongeBob Trivia App - by Katherine Ortega



Click the app screen to open! **Be sure to click "view code" to see how the app was created!** You can even send the app to your phone!

This app was created by 8th grade student Katherine Ortega. It was built using Code.org as the platform and Javascript as the programming language. Try out her Guess the SpongeBob Character Trivia app by clicking on the screen to the left.

Marvel Movie Trivia Apps - by Kendell Gilliard & Josiah McLean

These apps were created by 8th grade students Kendell Gilliard & Josiah McLean. They were built using Code.org as the platform and Javascript as the programming language. Try out their trivia apps by clicking on the screens below!

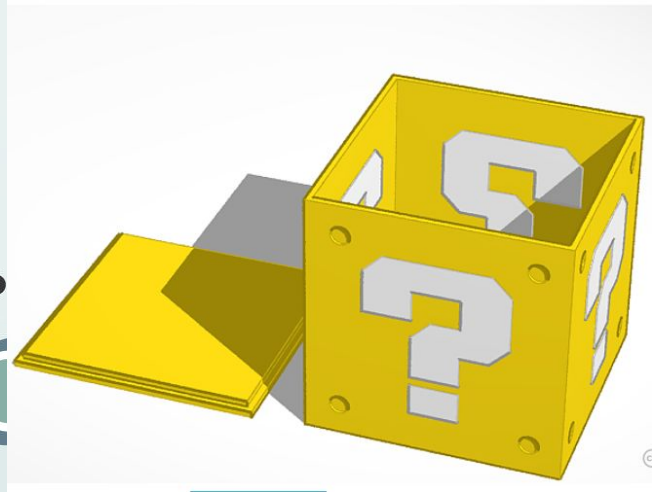
Click the app screens to open! **Be sure to click "view code" to see how the apps were created!** You can even send the apps to your phone!

3D Printed Mario Storage Block - by Davon Lowery

This Mario Storage Block was designed and 3D printed by 8th grade student Davon Lowery.

Click the slideshow to the right(top) to view the screenshots from start to finish!

Click the screenshot to view the completed project on TinkerCAD! Be sure to view it in 3D.



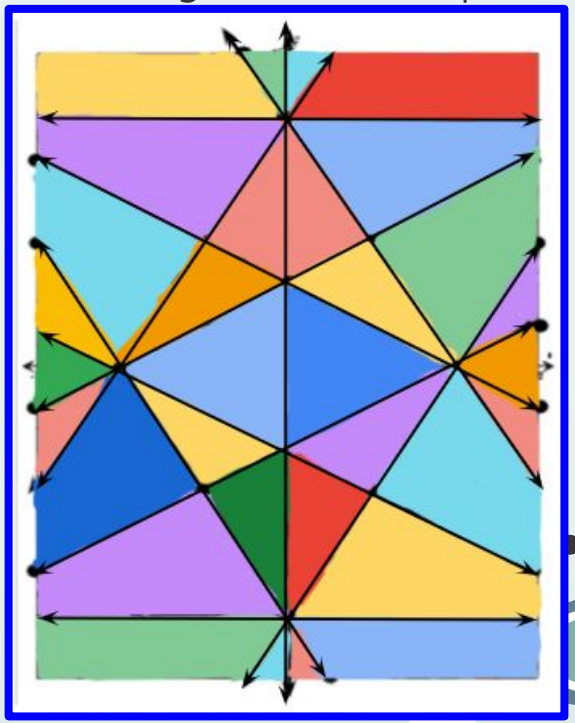
This Computer Aided Design project that was created by 8th grade student Jeannine Brown using Floorplanner.com.
Click on the image below to open Slideshow!!

floorplanner

Project by Liann Melo:

In my project I graphed lines in slope-intercept form to create a stained glass window. I graphed the linear equations and colored in the shapes that the lines made.

Click on the image below to open Slideshow!!



Would You Rather Math Edition is a fun graph game. You have to read the graphs, think which has the best outcome and pick one! Some may be chosen from a personal preference and that will be on the answer key sheet. Overall it's a very fun game to play with you and your friends.

Click on the image below to open Slideshow!!

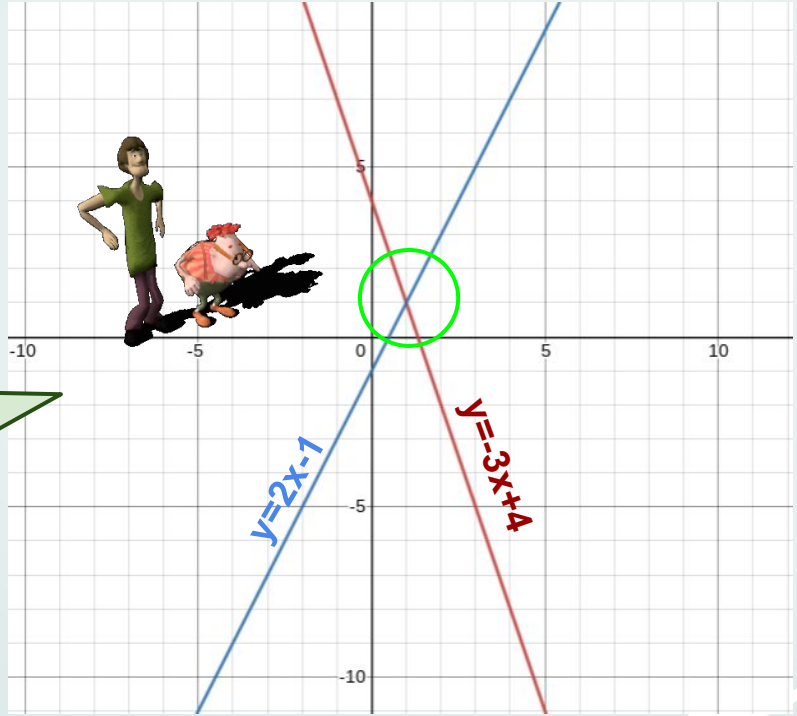
Egg Parachute Drop

Click on the title to open our Slideshow!!

System of Equations - Mireya & Rachel

We have created an easy and fun way to learn about system of equations. Learn how to identify different types of equations, how to graph them, and more with our slides. After learning the basics we have two quizzes prepared for you!

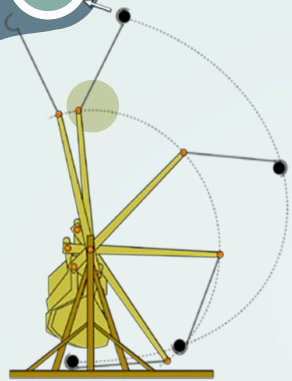
Click on them for more practice :)



Learn to graph and solve a SOE with Carl and Shaggy! They are watching and rooting for you

How Does Lowering a Catapult Arm Affect Range?

Click the Title Above to see the Project!

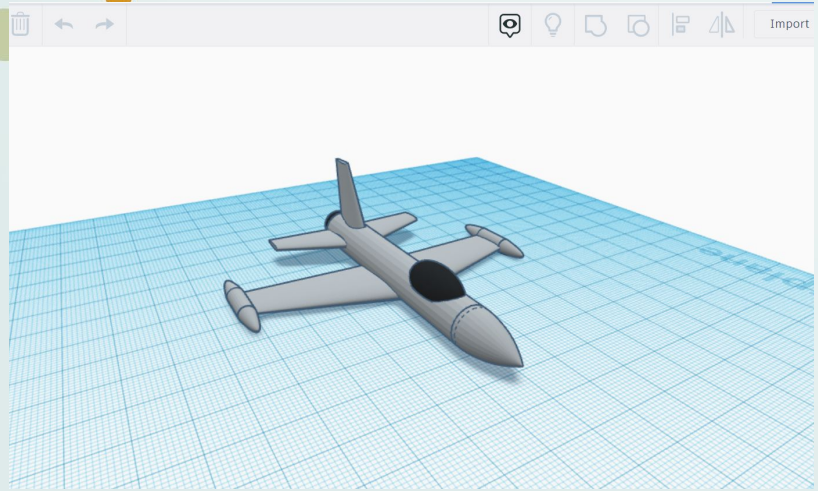


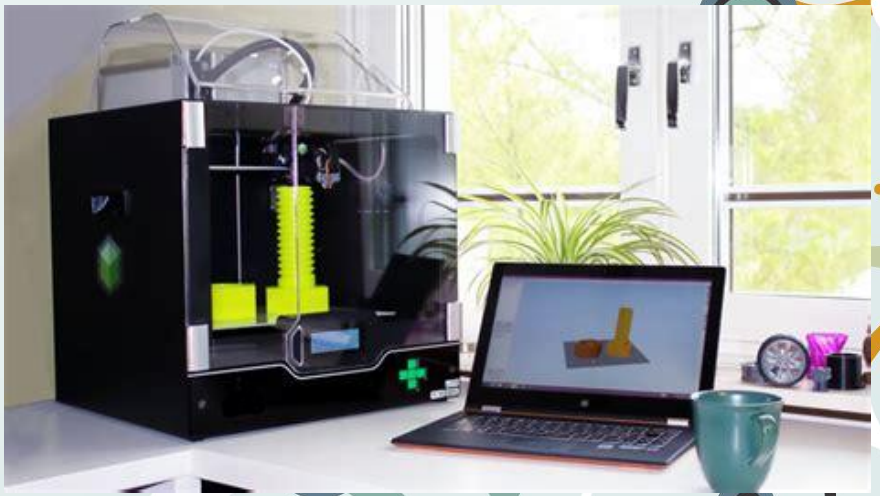
The Trebuchet Catapult Project was conducted by three 8th grade Honor Math students: Theo North, Megan Flores, and Sebastian Curillo. Check to see how we Indicated the process and math behind the catapult constructed!

3D Printing by Nelson Oo and Louis Zepeda

3D printing is used in daily life. You may wonder, how is it used in daily life? Well, some parts of your phone or the phone case you have is probably 3D printed. Some parts of this computer are 3D printed. Isn't that amazing? Read down below to find out how to make something you desire.

Click on the title above to open Slideshow!!





Our project is about a game called battleship. It involves players taking turns trying to guess where their opponents ships are. First person to guess all of the opponents ships wins. This game can be very challenging especially since you can only ask 3 questions. In the end this game can be very fun. This is our take on the game Battleship.

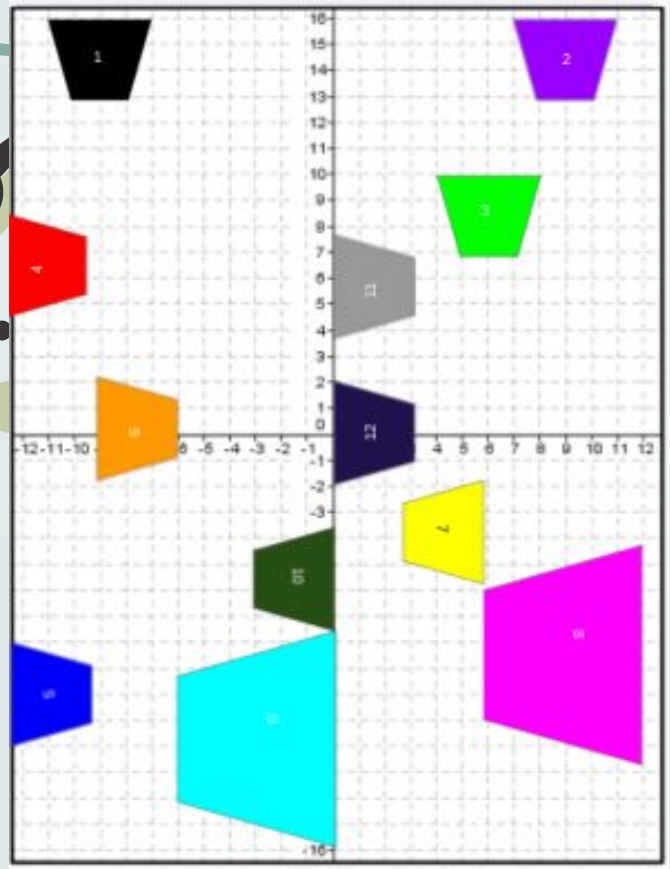
Click on the image below to open Slideshow!!

BATTLESHIP!!

By Alex Vele and Marianella Arpi

Angry Birds Quadratics Project By Gabriel Alamo

I believe that most of us have heard about or played Angry Birds at least once. If you haven't, shame. This project ties the game's main mechanic (flinging the birds with a slingshot) with Quadratics. Click the screenshot below to find out more.



Transformation project by: Lola Ojeda

A project showing the rules for translations, reflections, rotations and dilations. It also has pictures and colored points together on the graph demonstrating each transformation.

Click on the graph to open Slideshow!!

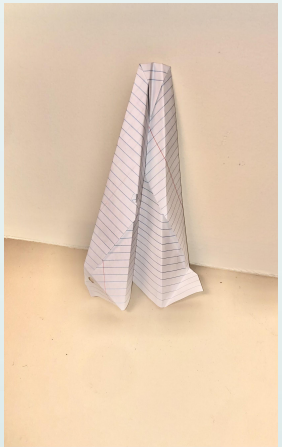
This is a hand build crossbow thats we are using to see the travel distance of the bullets with 6 different angles.

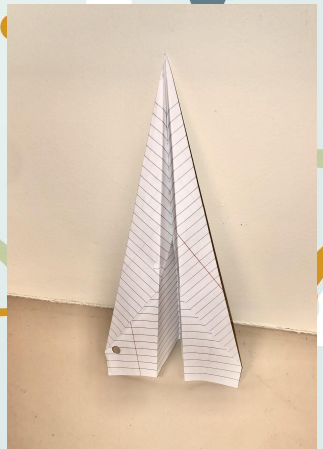
Click on the image below to open Slideshow!!

Flight Of a Paper Airplane

Double click on title to open up the project

These are 3 paper airplanes know as the Arrowhead(Left), Tainspin(Middle), and the Basic Dart(Right).
We threw these twice each and calculated the distance it flew.
Each slide me and my partner on this project will see who threw the paper airplane farther.
By the end we will see who has thrown the three paper airplanes the farthest





Solar System of Equations
Escape the Room!

Click the link and try to Escape the Room

By: Amy Merchan, Marcaela Elliott, and Norah Thompson-Shapiro

Scientific Soda Competition! ⟵Click here!

By: Randy Montano & Zachary Ninan

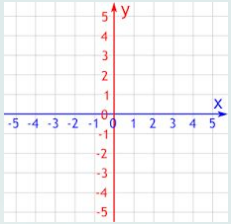
Intro To The Arithmetic Sequence

The curtains rise and the concert starts. The band? Arithmetic Sequence! Learn the Arithmetic Sequence with the continuous strum of guitars and Vocaloid voices singing away!

Click on the image below to watch the video!

By: Marlene Melendez

Solving Inequalities



Want to learn how to graph inequalities without it being confusing just..

Click on the image below to open Slideshow!!

These slides will have...

- An independent slide for each step
- Graphs Showing you how to do it.
- And a fun little challenge at the end!

A fun way to learn to graph inequalities!

By- Dayle & Kelly

WHO LIVES IN A PINEAPPLE UNDER THE SEA?

LET'S HAVE AN ADVENTURE

Try it!

PAC-MAN Adventure!

Juan Cardona
Crystal Rosas

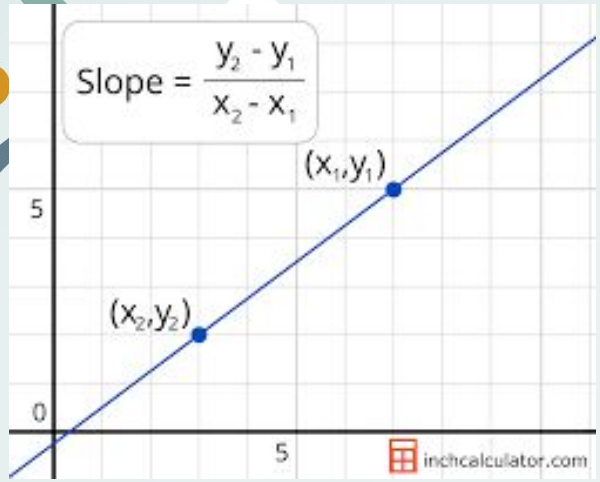
Click on the image below to open Slideshow!!

Open the Slideshow to play the adventure of Pac-man. Pac-man is fighting 4 dangerous and angry ghosts. Help him SURVIVE!

Parallel Line Town - Ariel Tenezaca,Randy Songor

Click on the image below to open Slideshow!!

This is no ordinary town, it is a town determined by a series of angles!



All About Slopes and Lines.

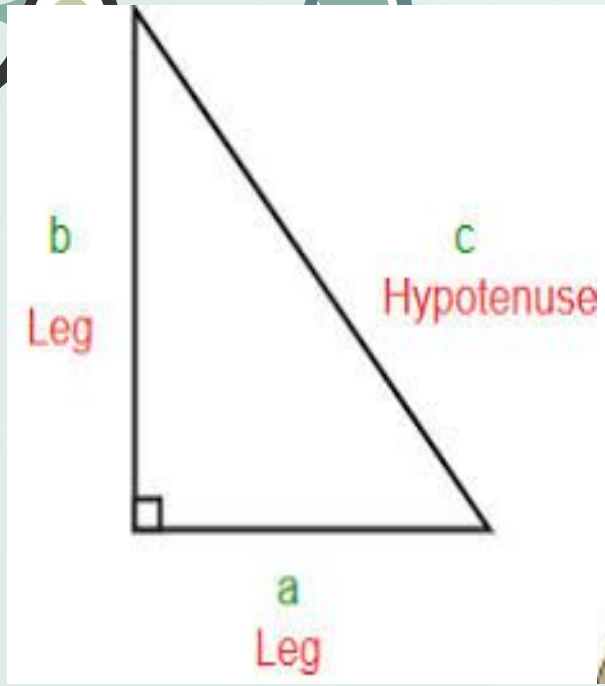
Slope-intercept: $y = mx + b$

Point-slope: $y - y_1 = m(x - x_1)$

Standard: $Ax + By = C$

Pythagorean Theorem

Click on Pythagoras to open a Math Treasure Hunt!!



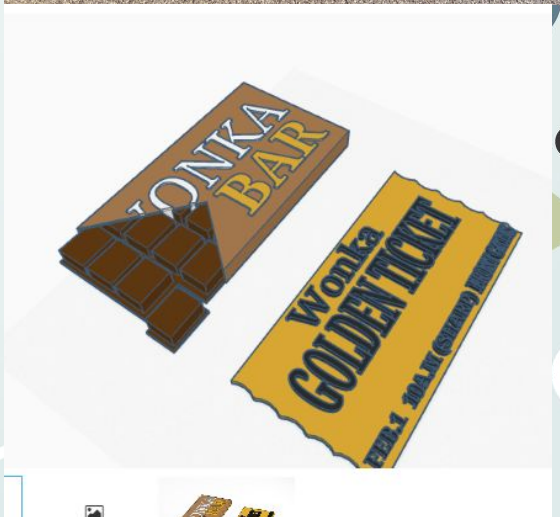
$A^2 + B^2 = C^2$

3D Printed Wonka Chocolate Bar with Winning Ticket!

This Wonka Chocolate Bar with Winning Ticket! By Brynne Barros.

Click the image to the right(top) to view the screenshots from start to finish!

Click the image to view the completed project on TinkerCAD! Be sure to view it in 3D.



Click on the image below to open slide show

"How far will the coke bottles travel"
by Tommaso, Tony, and Charlie

What we are doing in this project is putting minty mentos in 4 different size cokes and seeing how far they will travel. We will find the Distance. The sizes we are using is Can size, 12 ounce bottle size, 16 ounce bottle size, and 2 liter bottle size.

Thank you for viewing our 2021 PKMS STEAM Fair. We hope you enjoyed all of our students' projects!