

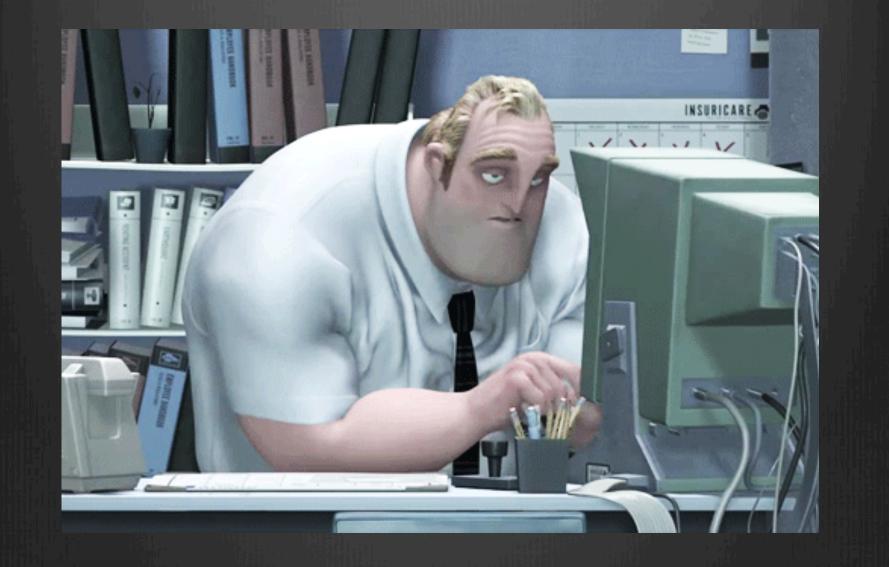
Chris Woods 19 years teaching HS math 1 wife, 3 kids, 250 inches of snow

Twitter: @dailySTEM Email: cwoods@clkschools.org Subscribe to the STEM Everyday Podcast

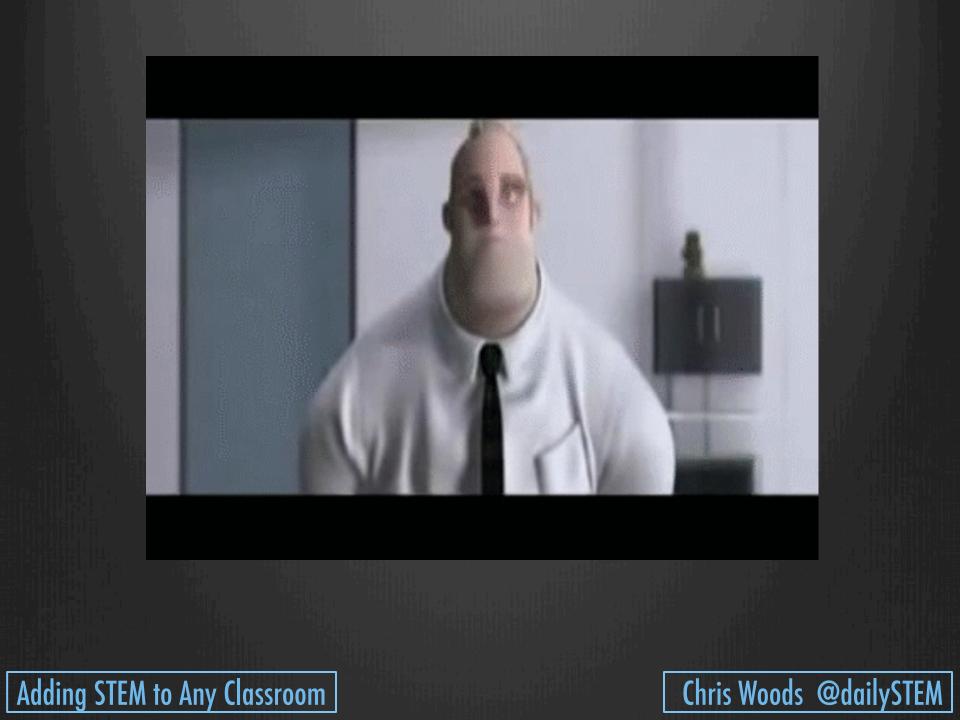












Every Teacher is a STEM Teacher... including you!



STEM is for...

Every student. Every class. Every day.



"Time for a POP QUIZ" "Time for STANDARDIZED TESTING"

"Time for STEM"

"Time for a DIET"



Time for a song...STEM-ified

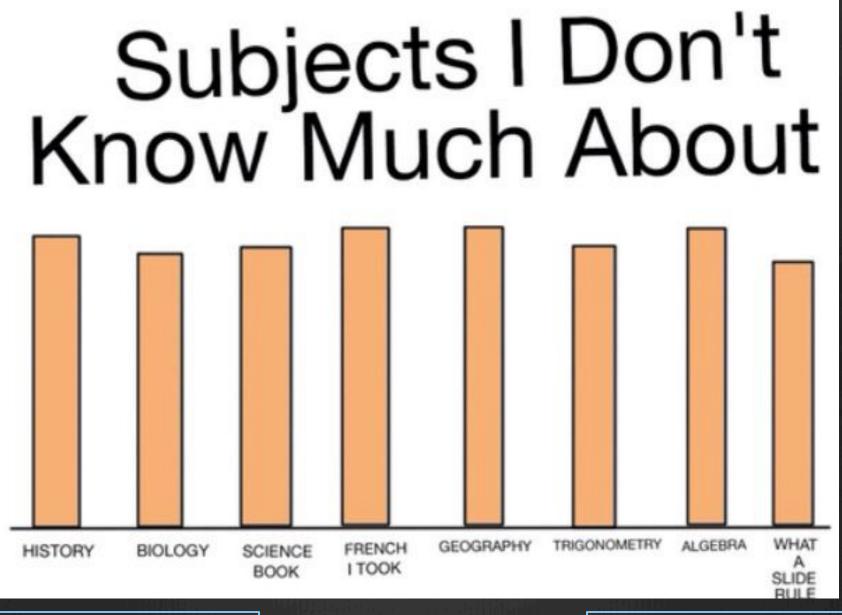
Popular colors of residential submarines



GraphJam.com







Chris Woods @dailySTEM

Which STEAM subject is your <u>favorite</u>, and why?



Which STEAM subject is your least favorite, and why?



What is Engineering?

Designing

Refining



What is Engineering?

Making

Making it better

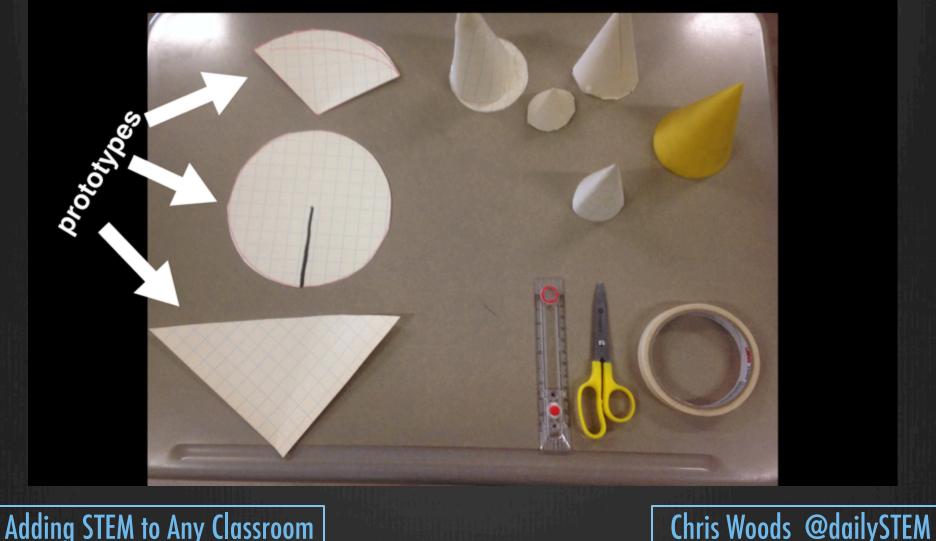


Problem Solving

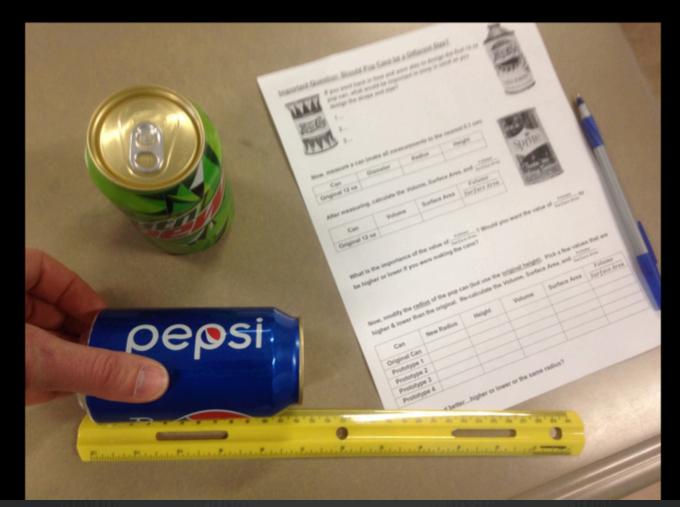




today's big problem: how to make a cone



today's big problem: what's the best size for a pop can





3,000,000

with the new design, 857, 142

of the bottles can be shipperd daily with a Ocarbon footprint

and

321,856,830

bottles are shipped anually with a Ocarbon footprint

a smaller footprint

The new bottle features a smaller footprint by design, making the transportation of the bottles much more efficient. For every 4 bottles, space for nearly 2 additional bottles is recovered.

new

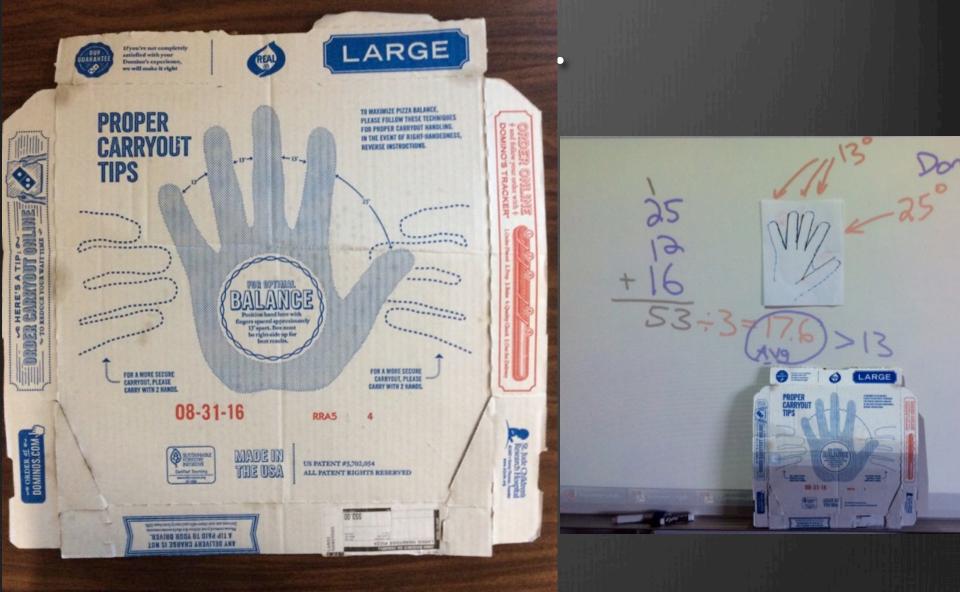
3949 bottles With the more efficient design, an addition of 3949 bottles can be shipped per shipping container.





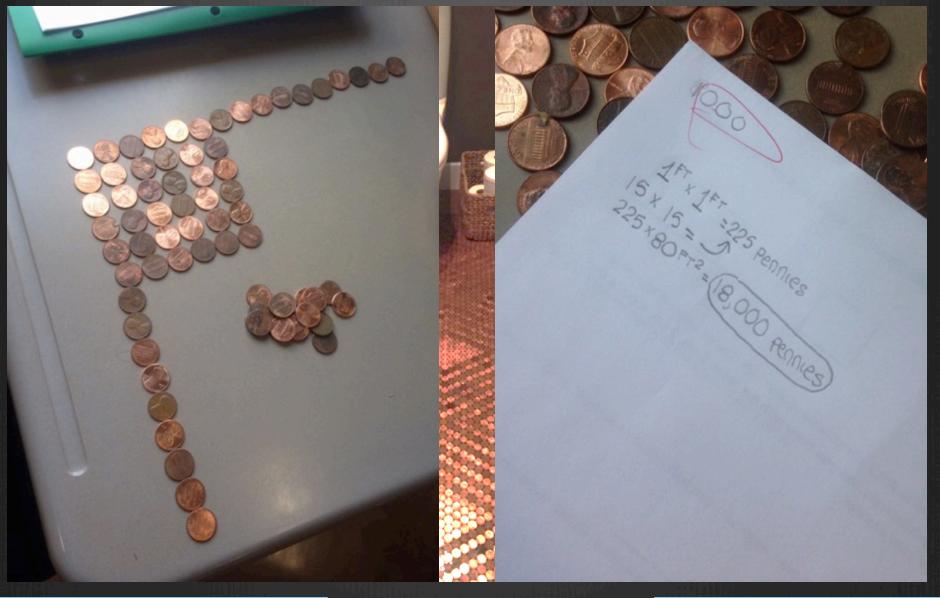


Chris Woods @dailySTEM



Chris Woods @dailySTEM

"Do circles tile?"



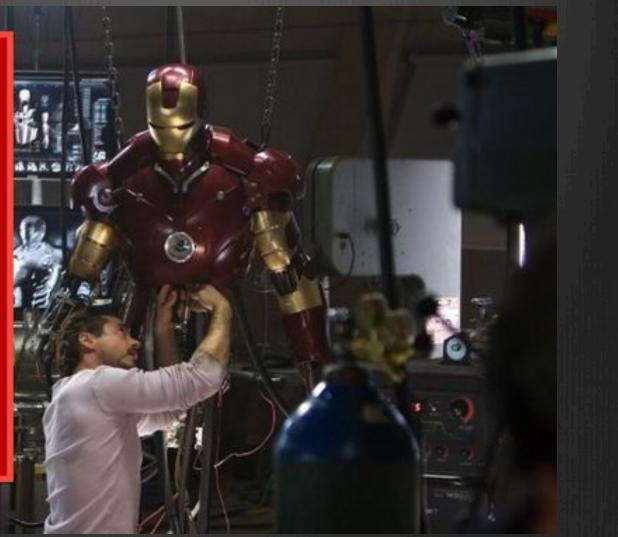


Why do kids like STEM so much?



Superheroes = STEM

Iron Man. That's kind of catchy. It's got a nice ring to it. I mean it's not technically accurate. The suit's a gold titanium alloy, but it's kind of provocative, the imagery anyway.





Teacher: What do you want to be when you grow up?

Student: Tony Stark







DR. BANNER, YOUR WORK IS UNPARALLELED. AND I'M A HUGE FAN OF THE WAY YOU LOSE CONTROL AND TURN INTO AN ENORMOUS GREEN RAGE MONSTER.

Chris Woods @dailySTEM







#TshirtTuesday



Chris Woods @dailySTEM

#TshirtTuesday

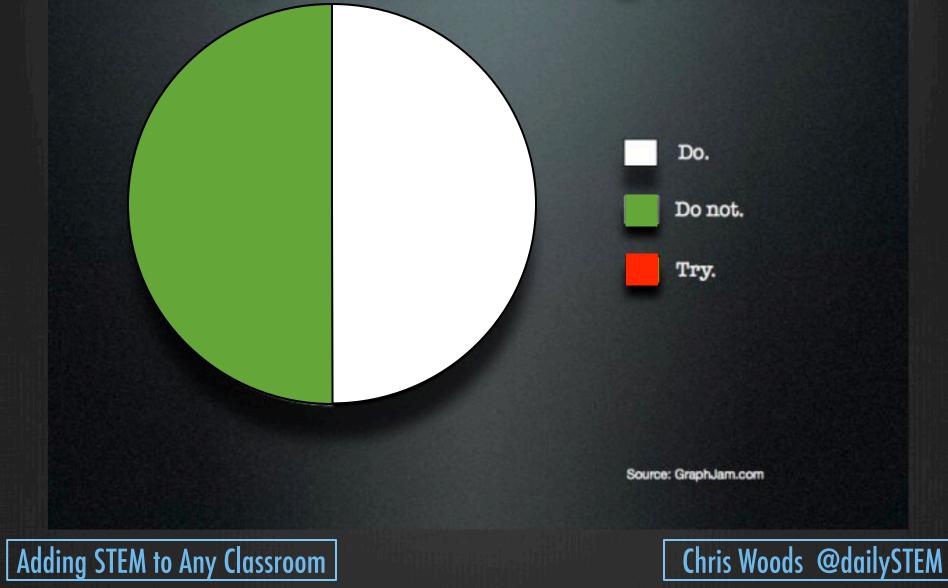


Chris Woods @dailySTEM

What do you think is the future of STEM education?



Your options according to Yoda.



Do...and try. -STEM

Our Mystery Sink Plant

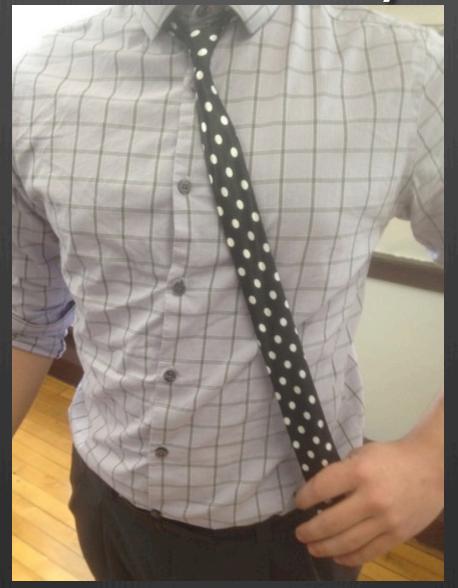


11:15 - 12:15





Look for STEM everywhere







#STEMeverywhere



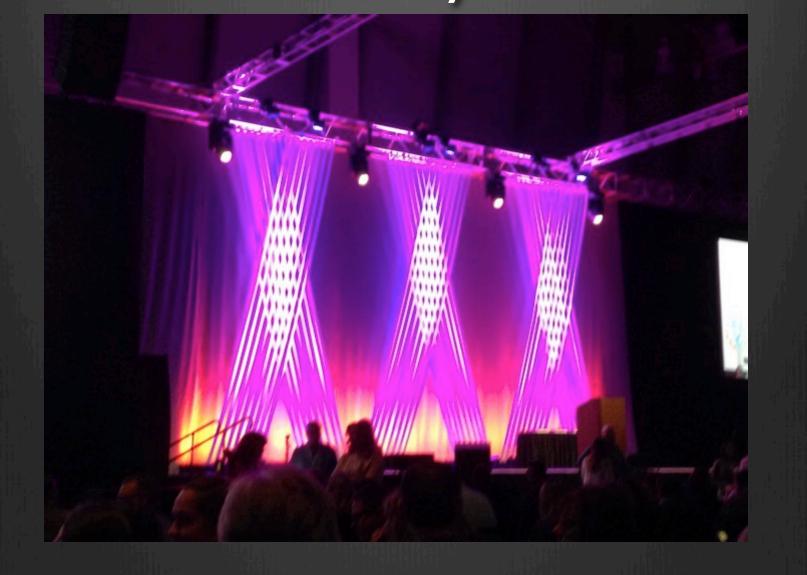


#STEMeverywhere





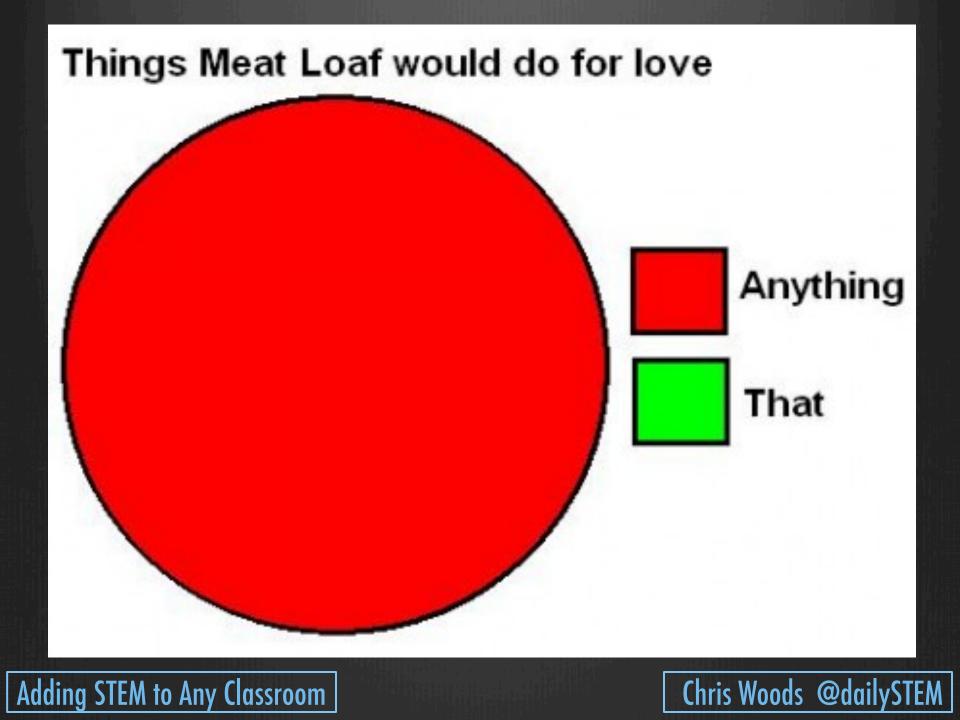
#STEMeverywhere

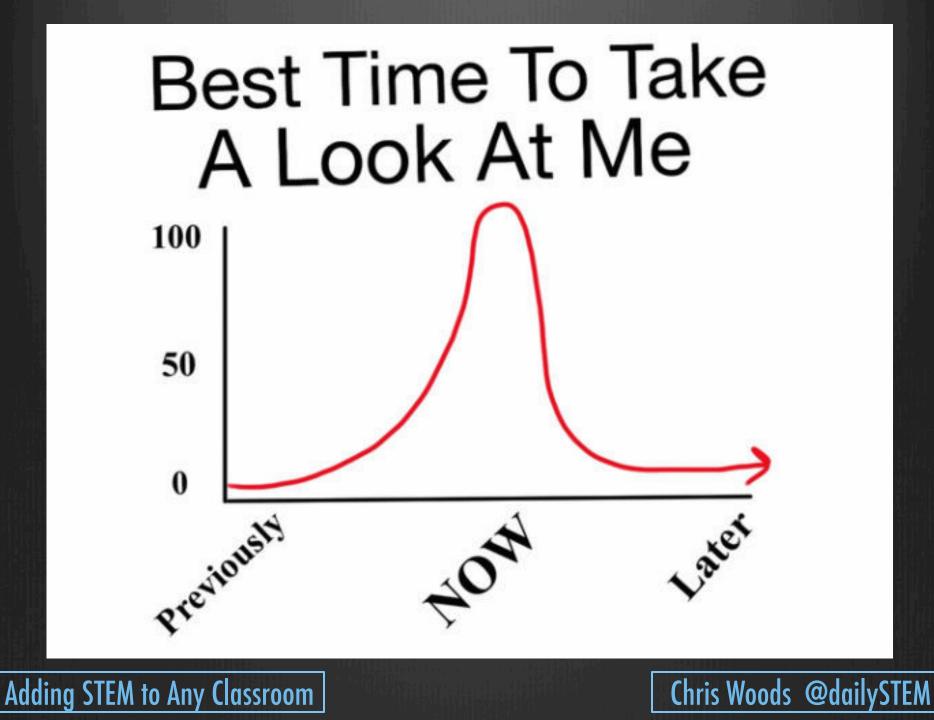


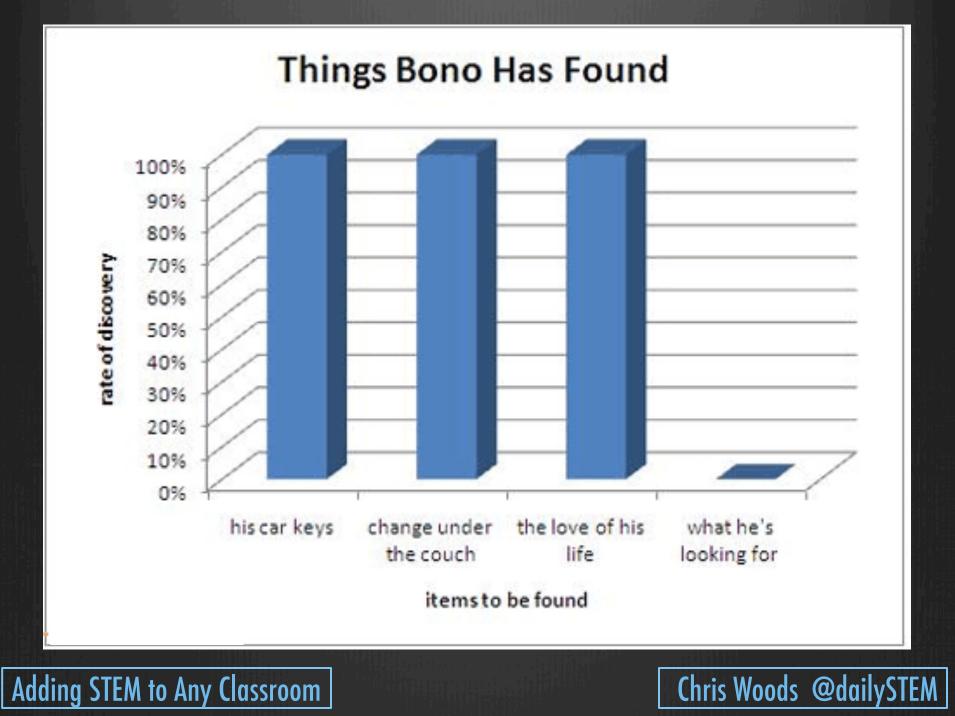


Send your kids on a STEM Scavenger Hunt







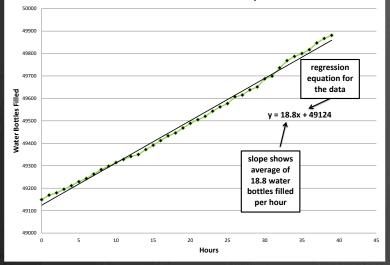


Your best STEM activity?



Simple data in your school...

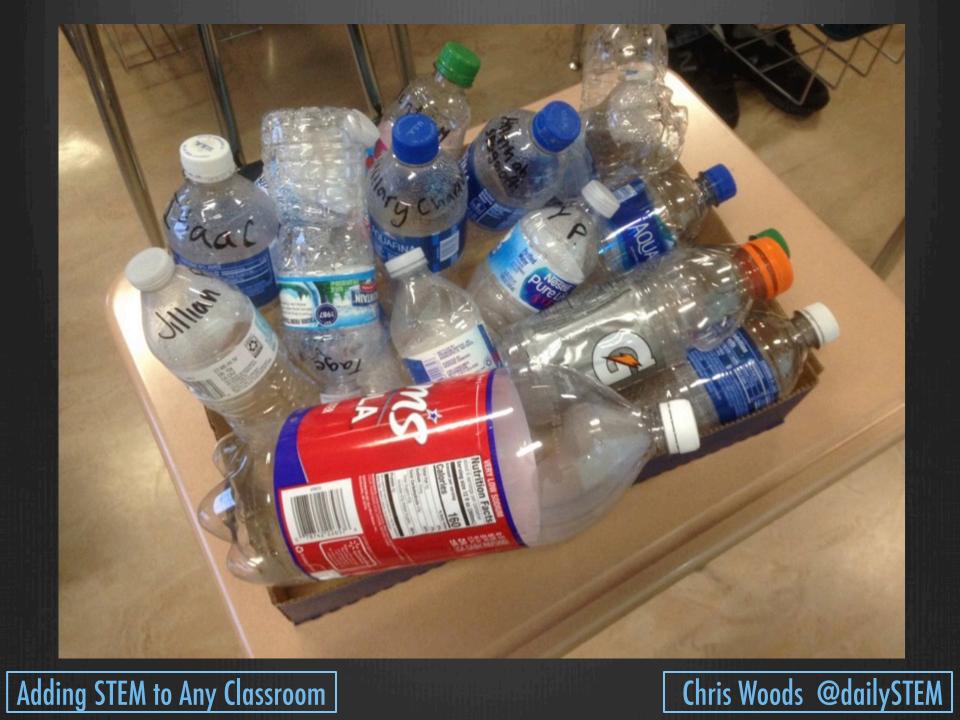
Total Waterbottles Filled over a 5 Day Period



Adding STEM to Any Classroom



Chris Woods @dailySTEM











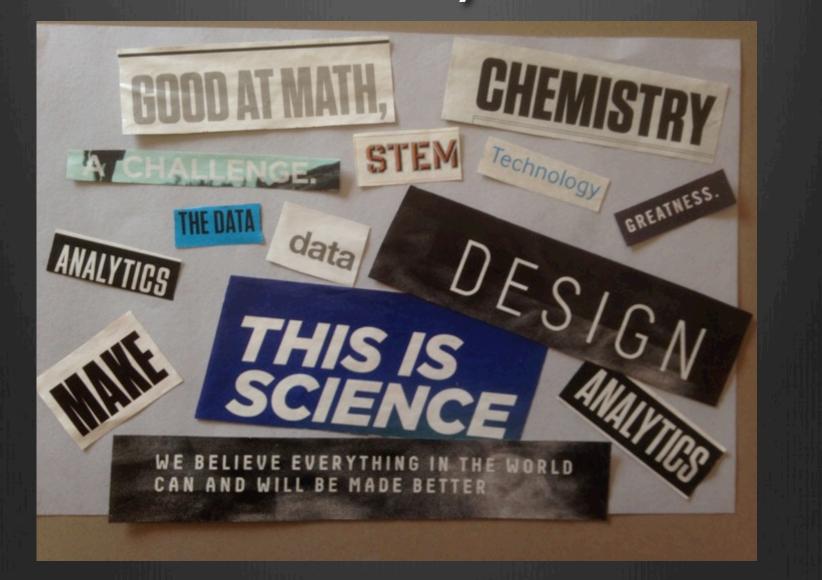


old magazines + scissors + polygon = art





STEM is Everywhere!



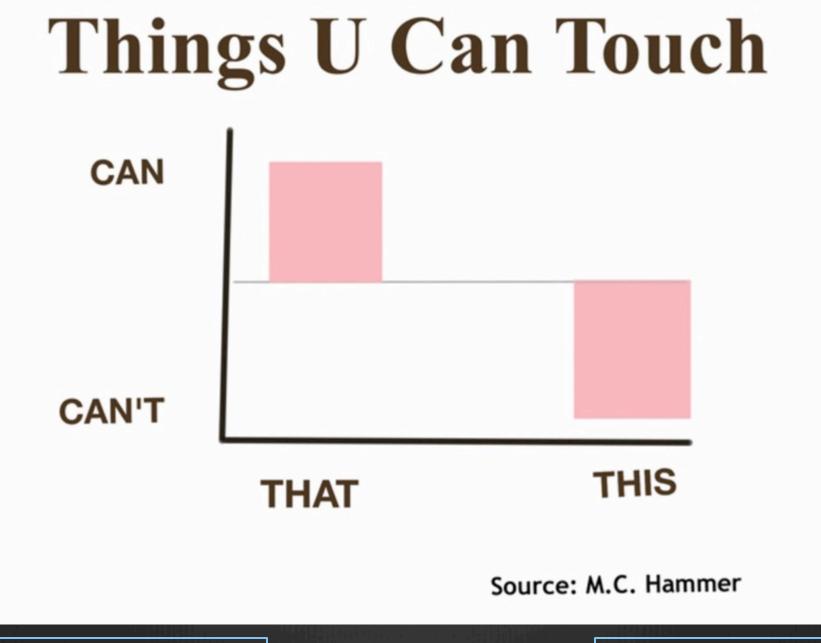


Your biggest STEM failure?









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People Who Should Come On



Best new STEM idea you've learned at MACUL?



www.instructables.com



Contests

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Let's Make ...

Featured

Write an Instructable

Login | Sign Up

Classes

Community Teachers

AUTODESK. Make anything

Let's Make rockets



Chris Woods @dailySTEM





We have enough Instruction

We need more <u>Inspiration</u>



Sometimes we have to break the "rules" & do some STEM because its awesome!



Ideas...



Percentage of People Working for the Weekend

WORKING FOR THE WEEKEND

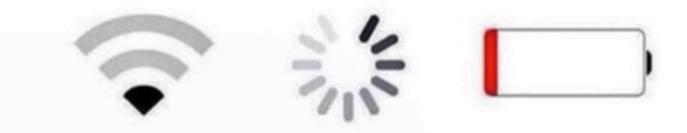
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100%

0%

3 biggest fears of our generation:



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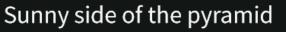












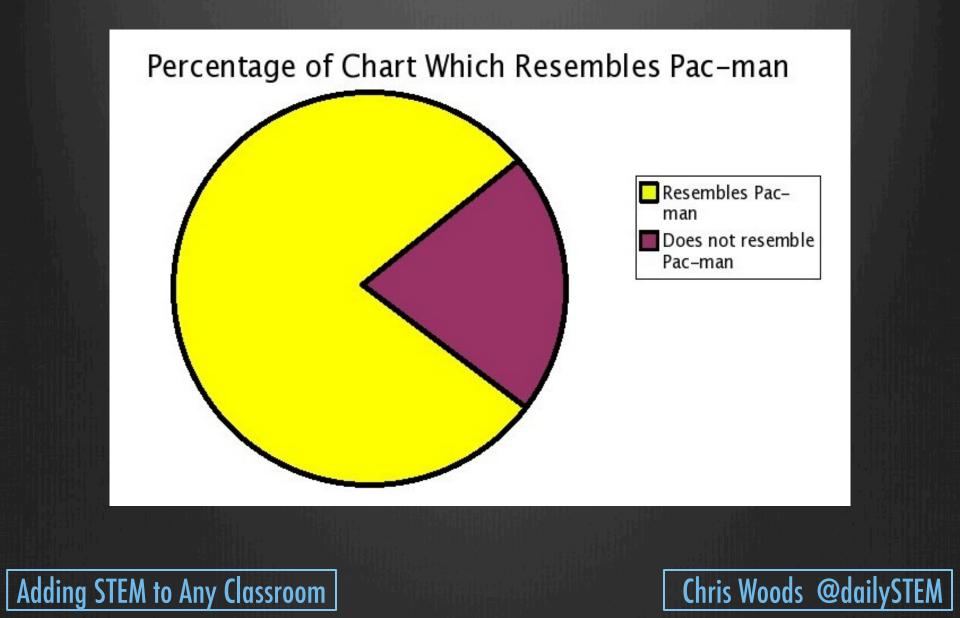
Shady side of the pyramid



Art without engineering is dreaming. Engineering without art is calculating.

- Steven Roberts



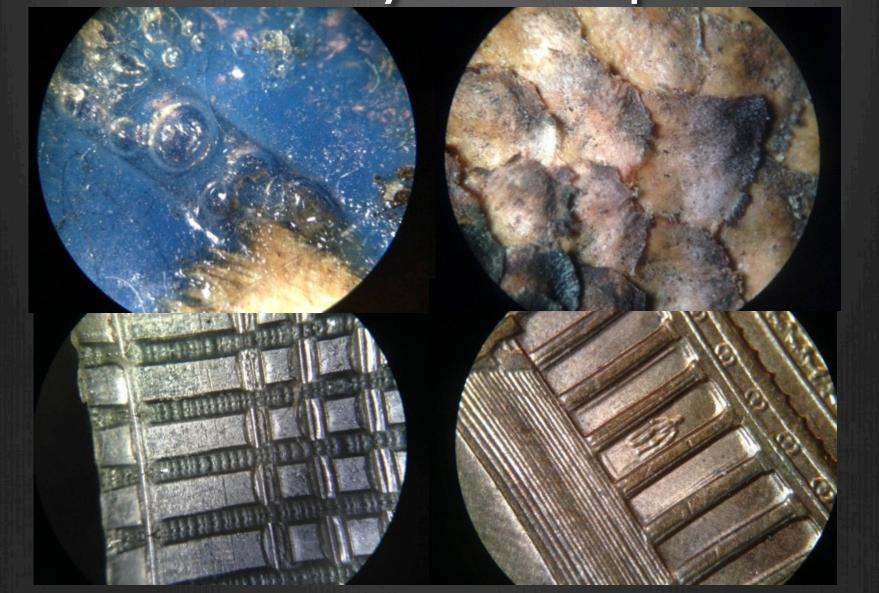


#TshirtTuesday

ENGLISH IS IMPORTANT BUT MATH IS IMPORTANTER

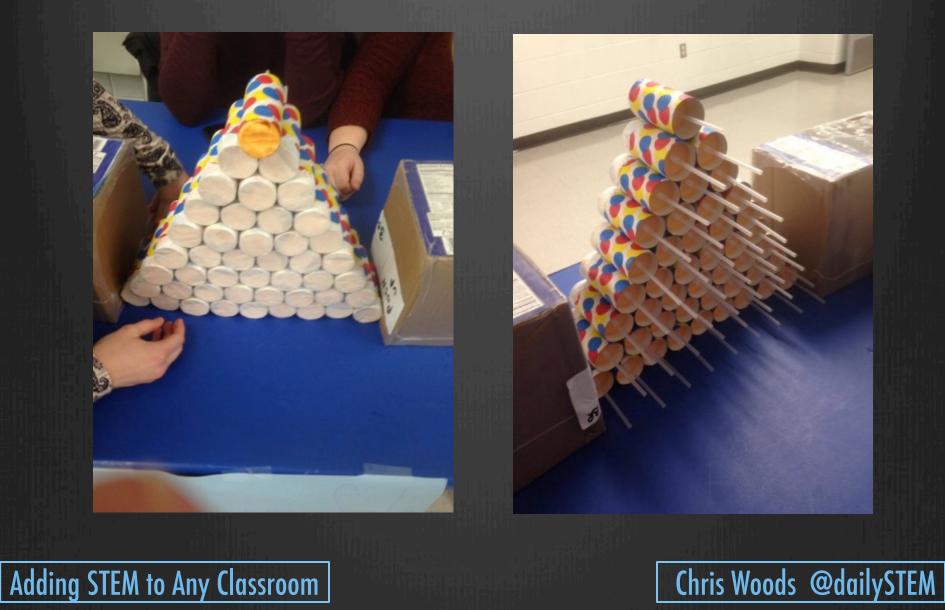
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#MondayMicroscope





"Mr Woods, look what I made!"



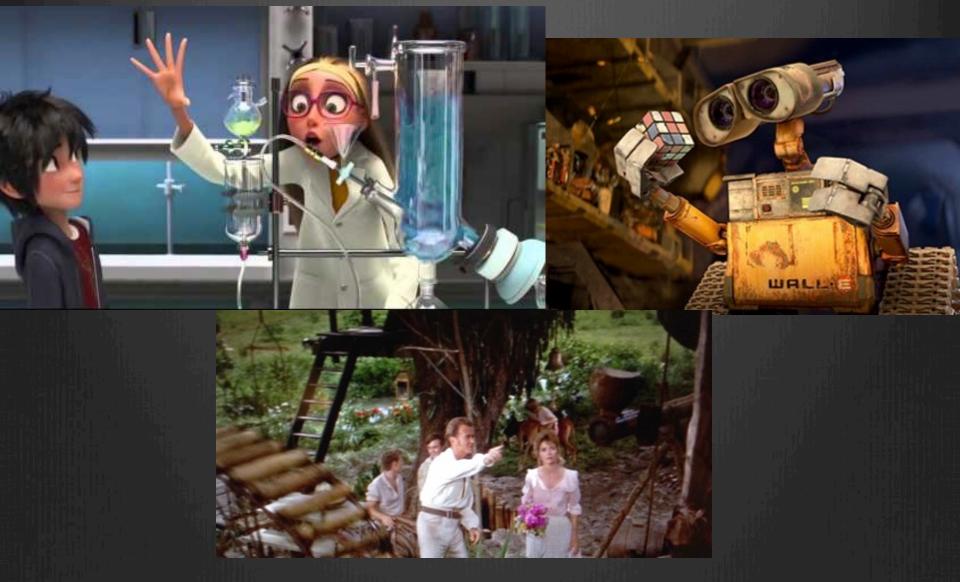
What's your favorite STEM movie?







STEM Movies...





Pixar in a Box

< PARTNER CONTENT

Pixar in a Box



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Pixar in a Box is a behind-the-scenes look at how Pixar artists do their jobs. You will be able to animate bouncing balls, build a swarm of robots, and make virtual fireworks explode. The subjects you learn in school — math, science, computer science, and humanities — are used every day to create amazing movies at Pixar. This collaboration between Pixar Animation Studios and Khan Academy is sponsored by Disney. If you have questions or ideas, email us at piab@khanacademy.org.

Chris Woods @dailySTEM

#MythbustersMarch





New Episodes Wednesdays 9p



Adam Savage 🤣 @donttrythis

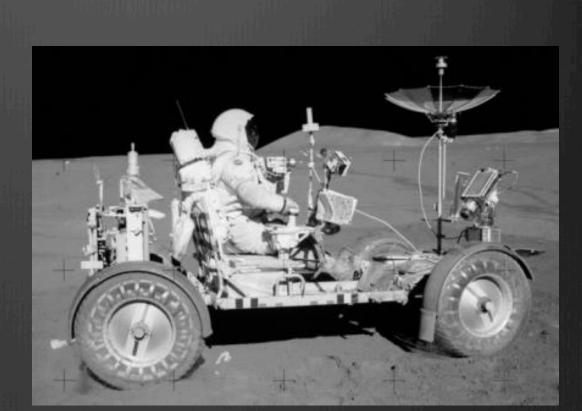
Hi, I'm Adam. I'm 19 & want to make a living making things. This is my shop in my parents' basement. #NationOfMakers





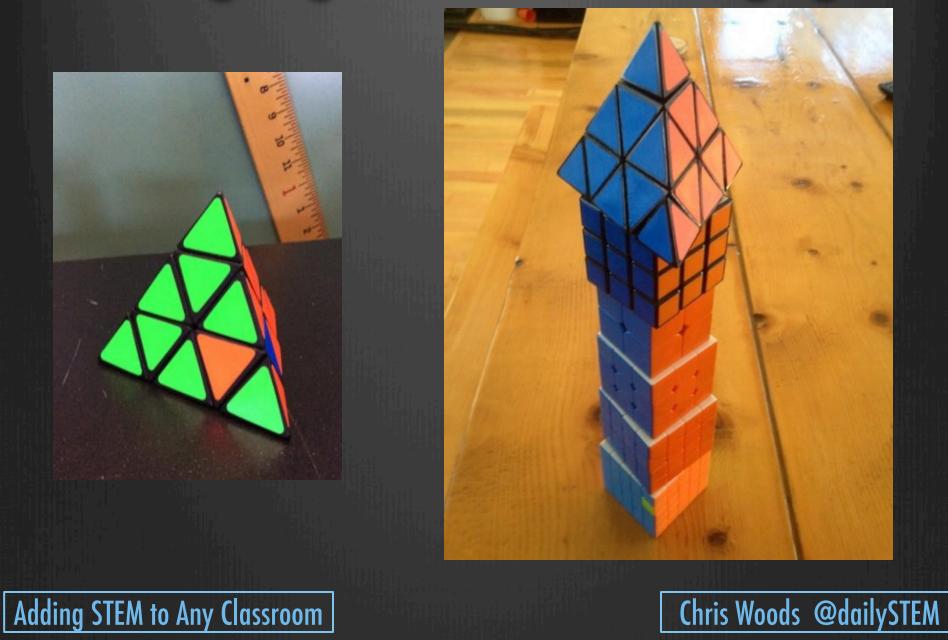
Interview a relative or senior citizen







From garage sale to life changing...



#TshirtTuesday



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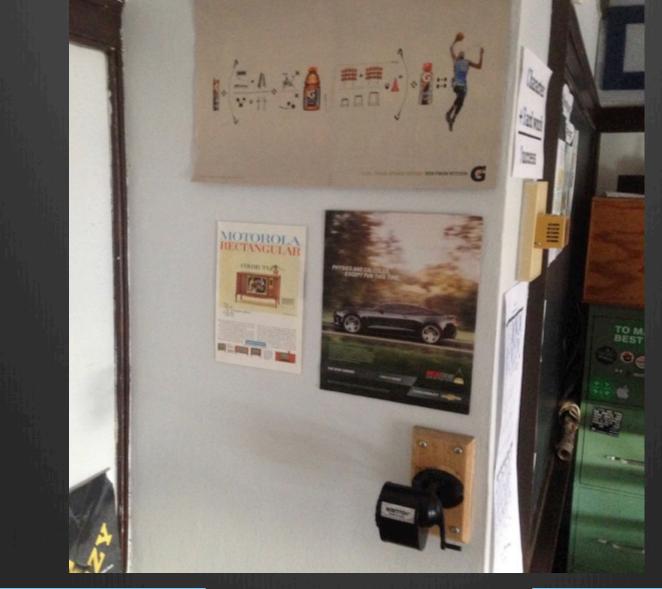
Paper Plate Marble Track

FrugalFun4Boys.com

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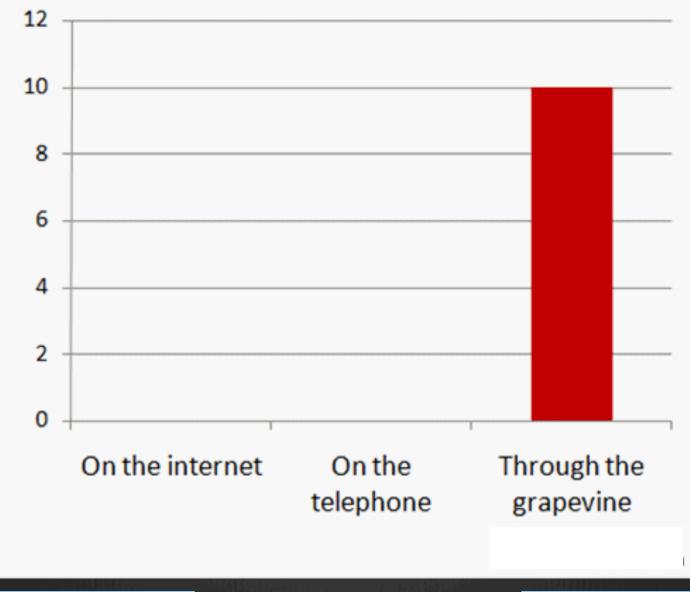
Chris Woods @dailySTEM

What's by your pencil sharpener?



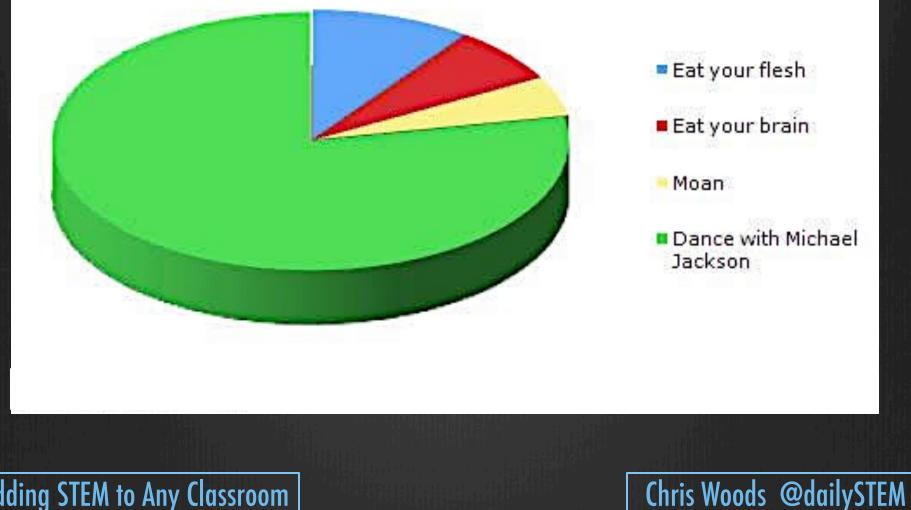


Where Marvin Gaye gets his gossip



Chris Woods @dailySTEM

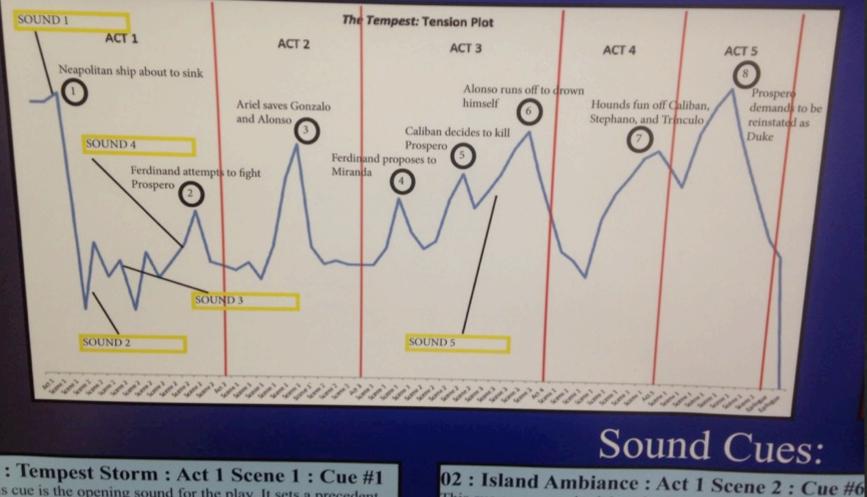
Things a Zombie Would Do



Tension Plot:

strates now I imagine the setting

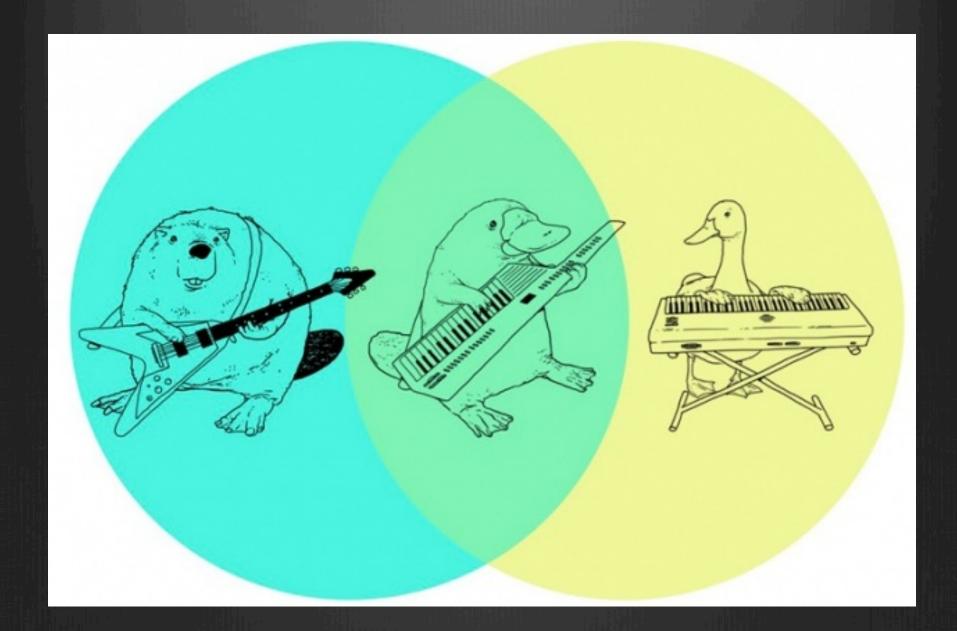
http://www.buin.corsica/fr/



is cue is the opening sound for the play. It sets a precedent the rest of the sounds of the play by maching togeth

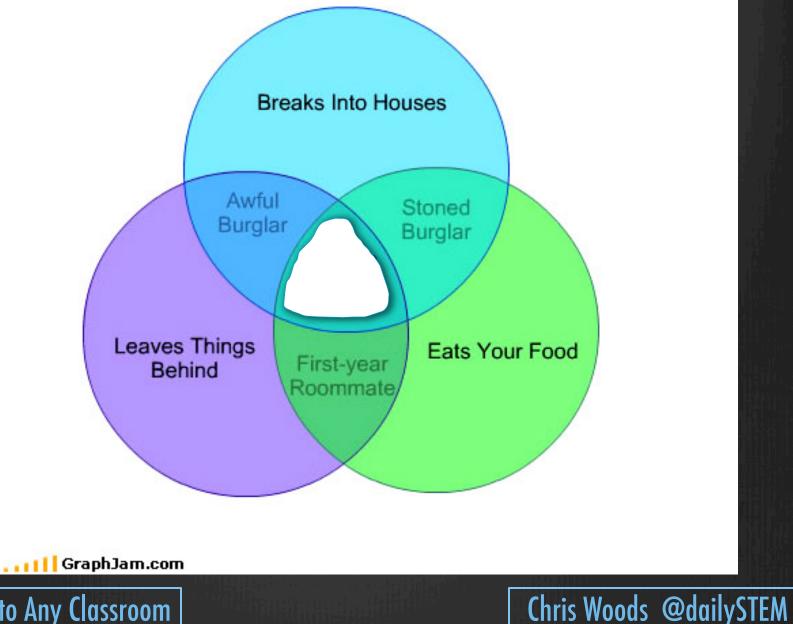
This cue serves as a backdrop for the opening scenes on the islan

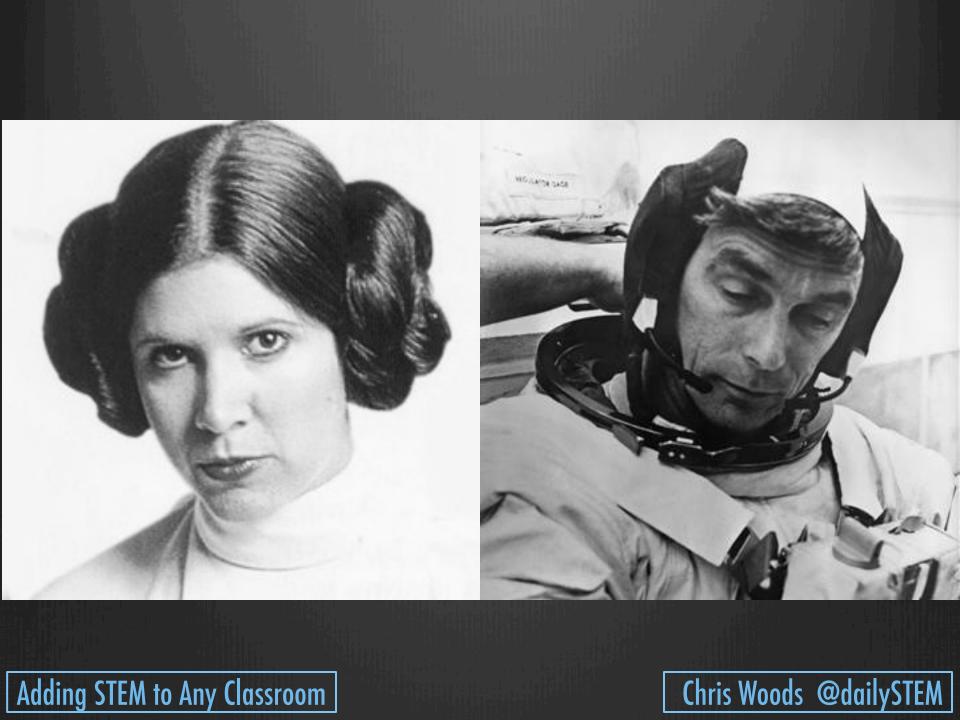






Just Who is This Guy?





Have you ever heard this... "I was never any good at math" -Parent

"I used to be good at math" -Student



We tell Parents to READ to their kids Let's tell Parents to do STEM with their kids





Stories...talk about STEM Trips...visit STEM places Exploring...go outside Making...make stuff together



Henry Ford Museum





https://www.thehenryford.org/collections-and-research/





Parents need to know that Rocket Science isn't Rocket Science.

Give parents suggestions

Plan a STEM night at school

Ask parents to volunteer



277 Simple STEM Activities for Families

Take a walk in the backyard	Read a biography of a scientist
Go to a museum	Watch an episode of How Its Made
Buy something at a garage sale & take it apart	Use a magnifying glass to search the ground for bugs
Fix a broken toy (instead of throwing it away)	Use a magnifying glass to start a fire
	Read the news & look for numbers
Take a calculator to the grocery store & find the best prices	Read the news & look for science
Use a big cardboard box to create a rocketship	Interview a Senior Citizen about their experiences with STEM
Play a card game that involves	Learn to use a compass (either kind)
	Make art using leaves
Play Connect 4	Fix a bike
Play Checkers	
Play Chess	Ask a friend who owns a business for a tour
Get an old microscope & look at stuff	Do a science simulation on www.phet.colorado.edu
Plant some seeds & record their	and a procession and a set
growth	Create something using www.instructables.com
Pop the hood & look at a car's engine	

Weed a garden & identi

Go rock hunting

Design & build mini boa a river

Visit a farm

Start a business

Build a solar oven & coo

Make a time-lapse video in nature

Make a green screen vi

Play Monopoly

Look at the stars

Try origami

Draw a picture using on triangles, & rectangles

Take pictures of all the t house

Build something using p



IF NECESSITY IS THE MOTHER OF INVENTION, PLAY IS THE FATHER.

- ROGER VON OECH -





Will YOU join the STEM Revolution? How will you start?

Every teacher can be a STEM teacher

Every parent can do STEM with their kids

Do...and try. -STEM







Thank You! I'm always willing to help & chat & share ideas!

Chris Woods

Twitter: @dailySTEM Email: cwoods@clkschools.org Subscribe to the STEM Everyday Podcast

Adding STEM to Any Classroom

Chris Woods @dailySTEM