



<http://pbskids.org/designsquad/>

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Digital Producer

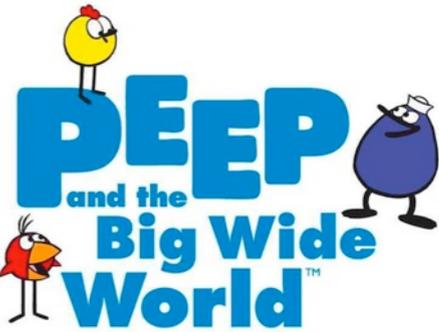


WGBH

ANTIQUES ROADSHOW

MARTHA SPEAKS™


FRONTLINE

PEEP
and the
Big Wide
World™


Fetch!
with Ruff
Ruffman


AMERICAN
EXPERIENCE

Arthur


MASTERPIECE
40 YEARS

NOVA

Between
the Lions

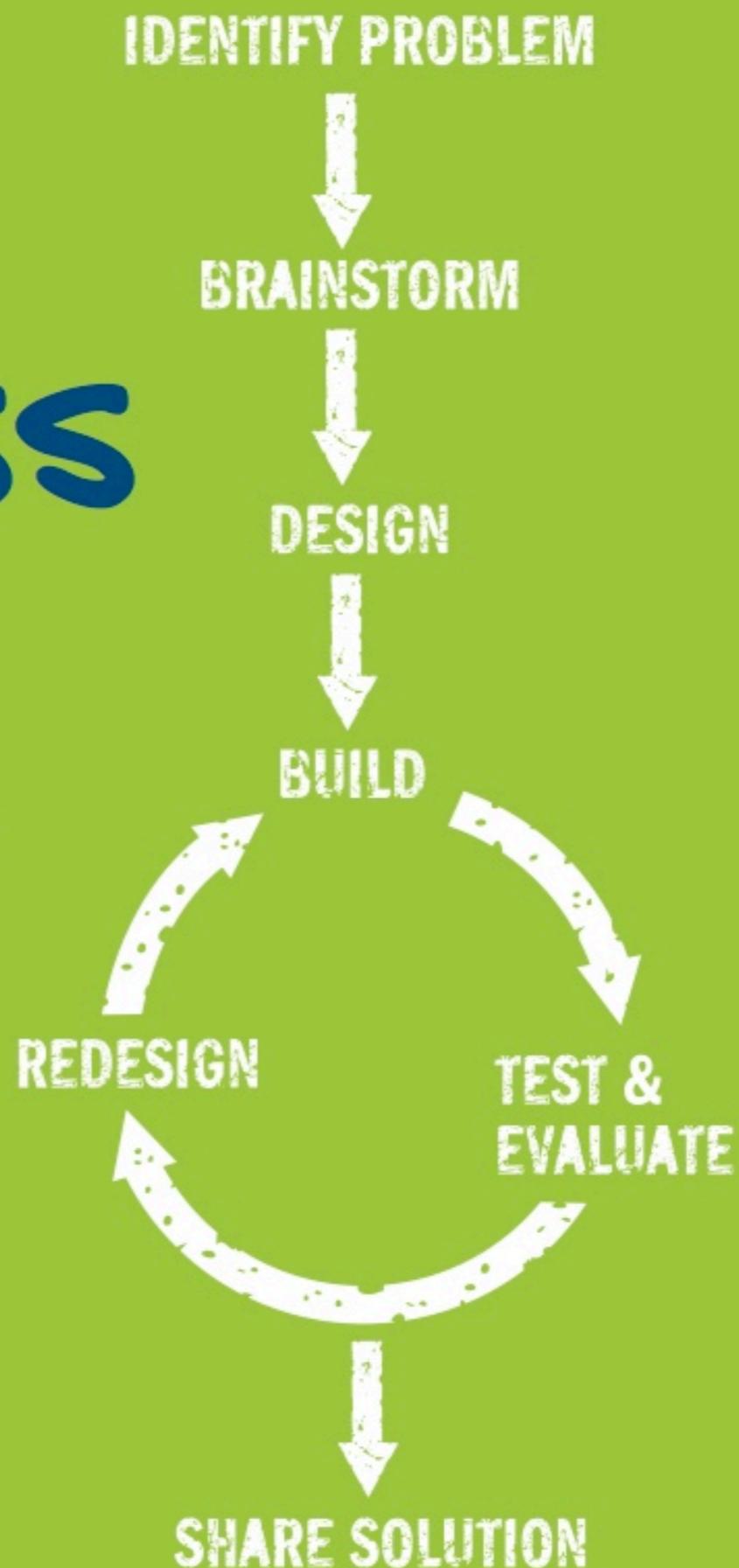

LIVE OUTDOORS
THE VICTORY GARDEN


Curious George




THE DESIGN PROCESS

USED BY BOTH INVENTORS AND ENGINEERS, THE DESIGN PROCESS HELPS PEOPLE THINK CREATIVELY ABOUT A PROBLEM AND PRODUCE A SUCCESSFUL RESULT. THE DESIGN PROCESS IS A GREAT WAY TO TACKLE ALMOST ANY TASK.



- 
1. identify the problem
 2. brainstorm
 3. design
 4. build, test, redesign
 5. share

WHY ARE YOU
HERE?

teleParting



by whatzit16



owl-39241-D

Source: <http://memory.loc.gov>

Engineers have led a technological revolution that has improved the quality of our lives, yet children and adults do not understand how the technology they use in their daily lives works. They are also unclear about the engineer's role in society or even what an engineer does.



“I want us all to think about new and creative ways to engage young people in science and engineering ...to be makers of things, not just consumers of things... because our future depends on it.”

- President Obama, in his address to the National Academy of Sciences, April 27, 2009



Extraordinary Women Engineers Project

AAES, ASCE, and WGBH

- Research conducted 2004-2005
- Four in-person focus groups
- Two online focus groups
- Five online surveys
- 4,506 Total Respondents

*Full Report Available at **engineeryourlife.org***



1. Girls (as well as their parents, teachers, and counselors) believe:

- **Engineers must be exceptional at both math and science**
- **Engineering is difficult and challenging**

2. It is **the engineering community that is contributing to their limited understanding** of the profession.

*Full Report Available at **engineeryourlife.org***

Engineer Your Life™

Dream big. Love what you do.

The four messages that tested strongest for EYL were:

- **Live your life, love what you do.**

Engineering will challenge you to turn dreams into realities while giving you the chance to travel, work with inspiring people, and give back to your community.

- **Creativity has its rewards.** Women engineers are respected, recognized, and financially rewarded for their innovative thinking and creative solutions.

- **Make a world of difference.** From small villages to big cities, organic farms to mountaintops, deep-sea labs to outer space, women engineers are going where there is the greatest need and making a lasting contribution.

- **Explore possibilities.** Women engineers often use their skills to go into business, medicine, law, or government. An engineering education will prepare you for many different careers.

*Full Report Available at **engineeryourlife.org***

Engineer **Your Life**™

A guide to engineering for high school girls

Dream big. Love what you do.

Why Engineering?
Meet Inspiring Women
Find Your Dream Job
Making It Happen

For Counselors & Parents
For Engineers
For Middle School Girls
(see engineergirl.org)

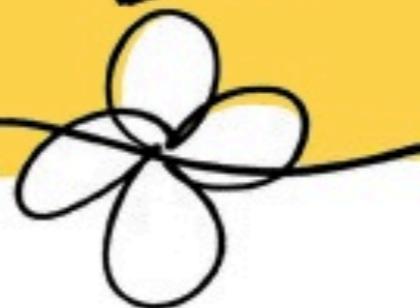
Meet Inspiring Women



make a world of
difference >

explore
possibilities >

creativity
has its rewards >



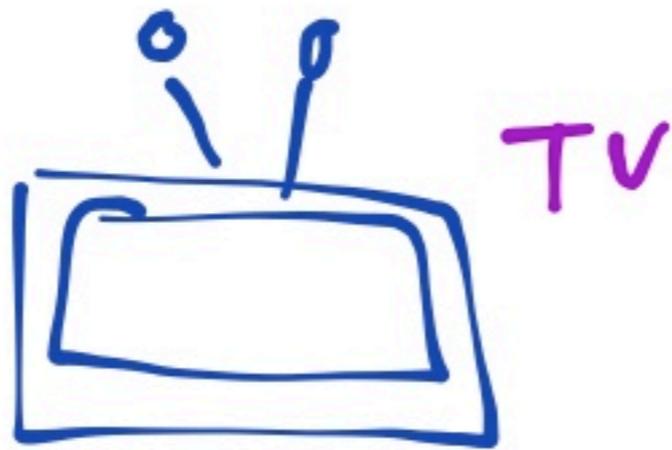
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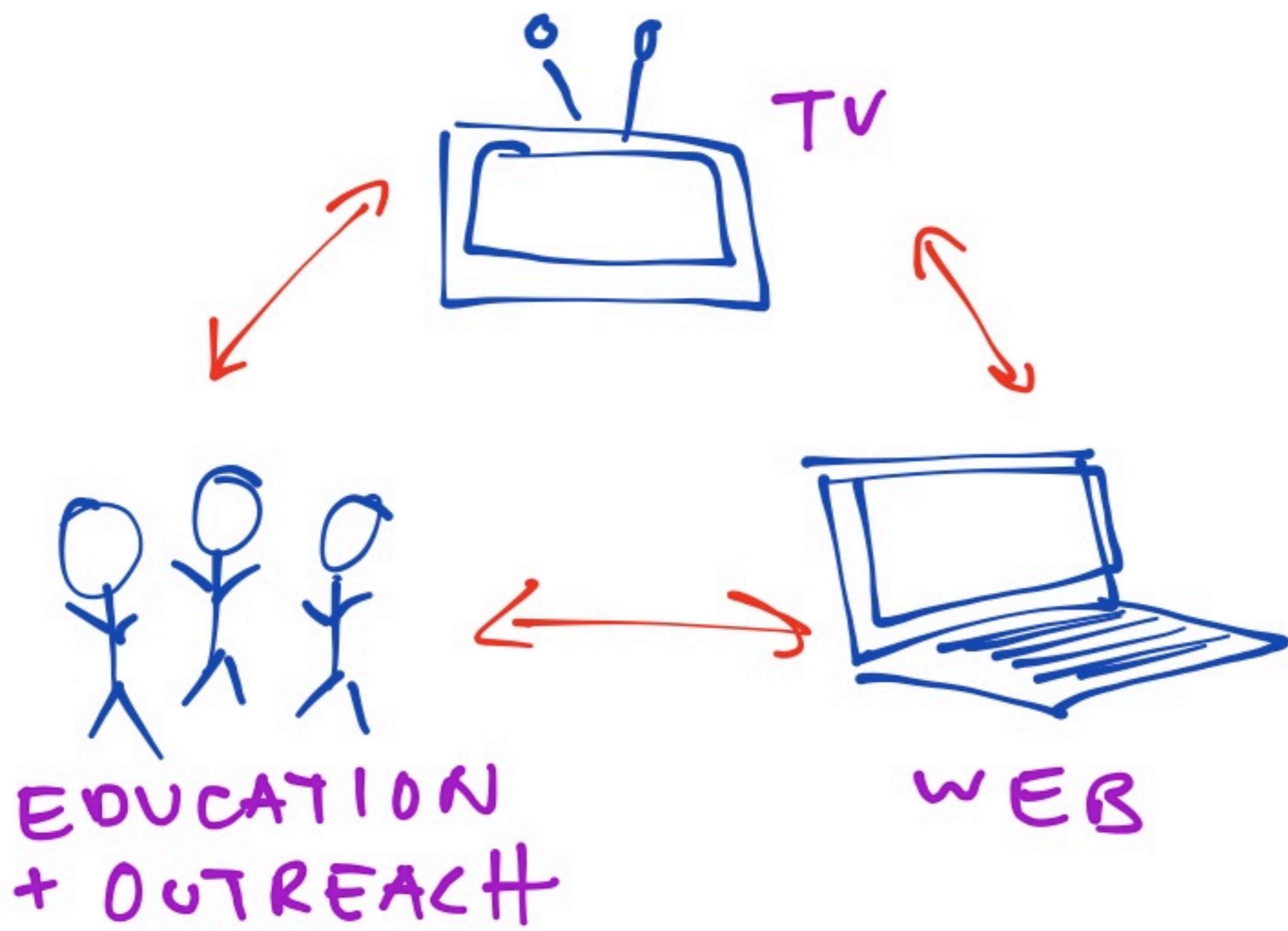


• 9 - 13
yrs

• REALITY
SHOW

"LAZY BONES" ?

"DESIGN SQUAD"



1. identify the problem
2. brainstorm
3. design
4. build, test, redesign
5. share



as built on TV™

Feb 2007

1.0



as built on TV

Watch an Episode: "The Need for Speed"

<http://pbskids.org/designsquad/video/need-speed/>

Elements of Design Squad:

1. The challenges come from a real world client
2. The teams work together, diverse group
3. Design process is iterative, showing success and failure
4. Team dynamics, working together has challenges
5. Animations to explain how the fundamental science concepts apply to solving the problem
6. ProFiles showcase real life engineers with exciting careers

Identify Problem
Brainstorm

Design
Build

Redesign
Share



use science and math
to solve real problems



as built on TV

Watch an Animation:

Design Squad Nation youtube playlist

<http://www.youtube.com/playlist?list=PL1FCA18AB7F4F0F96>

62 Short Videos on many topics from the science behind pitch and sound, to how electrical circuits work.

fail fast, succeed sooner



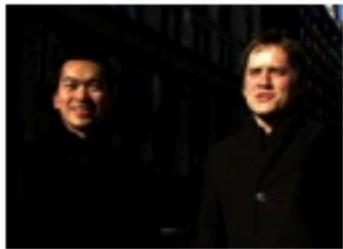
as built on TV™

See the Design Process in Action

Online Workshop for Educators:

<http://pbskids.org/designsquad/parentseducators/workshop/welcome.html>

you're in good company



Laboratory at Northeastern University, combines both mechanical engineering while working on robots that mimic biological animals like a swimming robot.

[Watch](#) | [Download](#)



Tracy Drain, Flight Systems Engineer

NASA flight systems engineer Tracy Drain explains that her role on the spacecraft team was to keep the mission problem-free by tracking details that nothing could fall through the cracks or be forgotten.

[Watch](#) | [Download](#)



Underwater Robot - Amy Kukulya

An oceanographic engineer at Woods Hole, Amy helps build a variety of shaped robots to map terrain under water.

[Watch](#) | [Download](#)



Victoria Garcia, Aerospace Engineer

NASA aerospace engineer Victoria Garcia describes how she works to design living and work spaces for astronauts. She also talks about how deafness be a barrier in her life.

[Watch](#) | [Download](#)



NERF Toys - Amanda Bligh

Hasbro toy engineer, Amanda Bligh, demonstrates how work at Hasbro spend your day designing NERF products.

[Watch](#) | [Download](#)



Package Design - Jennifer Chua

Jennifer Chua is a 25-year-old packaging engineer who works at a company in San Francisco that specializes in nontoxic, biodegradable products. She designs high-quality products that are both good-looking and good for the planet.

[Watch](#) | [Download](#)



Penguin Habitat - Jennifer Nakayama

Jennifer Nakayama of SeaWorld puts to use her skills as an environmental engineer to create a cool, new habitat for warm-weather Humboldt penguins.

[Watch](#) | [Download](#)



Racecar - Sarah Grenier



as built on TV

Watch videos of real life engineers who are making a difference:

Design Squad Website:

<http://pbskids.org/designsquad/parentseducators/resources/index.html?type=videoprofile>

Design Squad YouTube Playlist:

<http://www.youtube.com/watch?v=NBamEfLER2M&list=PLD1BCF5848ABE3671>



as built on TV

Parents, Educators and Engineers

<http://pbskids.org/designsquad/parentseducators/>

1. Hands-on activities and Guides
2. Events
3. Trainings and Webinars
4. Partner organizations



Interview with Scott Kutz,

a teacher who's using Design Squad in his school

<http://www.wgbh.org/changeyourworld/theTeacher.cfm>



- RESOURCES
- Electricity
- Energy
- Machines
- Music
- Transportation
- Games
- Structures
- Technology/Materials
- DESIGNING

- MEET US
- FOR PARENTS & CLIENTS
- WATCH THE SHOW
- ABOUT THE SITE

Parents, Educators & Engin

RESOURCES: Electricity

Show Only:

ALL

ACTIVITIES

ANIMATIONS

VIDEO PROFILES

ACTIVITIES

Activities are hands-on challenges that focus on using simple materials, allow for multiple solutions, and encourage creative problem-solving.



Dance Pad Mania

Build a dance pad that sounds buzzers and beeps.

[Read more](#)

Download PDFs: Student Handout ([English](#) | [Spanish](#))



Electric Gamebox

Invent a game with a buzzing target for a K-5 student.

Download PDFs: Student Handout ([English](#) | [Spanish](#))

Download episode clips: ([Switches](#) | [Design Process](#))

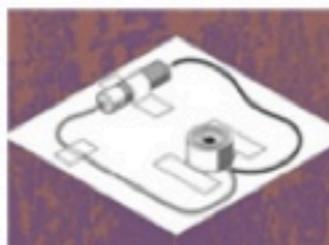


Electric Highway

Build a circuit that connects a battery and a buzzer using different types of materials.

[Read more](#)

Download PDF: Student Handout ([English](#))



Hidden Alarm

Build a circuit to power an alarm so small that it can be hidden.

[Read more](#) | [Watch a demo](#)

Download PDFs: Student Handout ([English](#) | [Spanish](#))





<http://pbskids.org/designsquad/parentseducators/>

TRAINING

Build your skills and confidence in guiding kids through engineering activities, or in training other adults how to do the same.



Self-Guided Online Workshop

Gain insight in leading kids in hands-on engineering activities with this self-paced training developed in collaboration with NASA.

[Read more](#)



Training Others

Get resources to teach your colleagues how to lead hands-on engineering activities with kids.

[Read more](#)



Mission: Solar System Training Video

See all the *Mission: Solar System* resources in action. Learn how to create a rich, multi-faceted learning experience for kids by using the three videos (the challenge, engineer, and NASA videos) to enhance a hands-on *Mission: Solar System* engineering design challenge.

[Watch now](#)

Read our blog

For the latest in engineering education

Find local engineering events



4-H
Adobe eLearning
American Association of Engineering Societies (AAES)
American Association of University Women (AAUW)
American Society for Engineering Education (ASEE) - Engineering, Go For It!
American Society of Civil Engineers (ASCE)
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
American Society of Mechanical Engineers (ASME)
Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB)
Association of Science, Technology Centers (ASTC)
Avnet Design
BetterLesson
Boston Society of Civil Engineers Think Fest
Boys & Girls Clubs of America
California Girls in STEM Collaborative Project (CalGirls) (NGCP)
California Polytechnic State University
California STEM Learning Network
Cascade Science Center Foundation
Central Texas Engineers Week
CH2M HILL
Change the Equation
Children's Discovery Museum
Coalition for Science After School
Cogito.org (Johns Hopkins U. Center for Talented Youth)
Connect a Million Minds
Creative Discovery Museum
Dell-Winston School Solar Car Challenge
Edomodo
Edutopia
Elon University, Dual Degree Engineering Program
Engineering education Service Center
Engineer In Residence (Professional Engineers Ontario)

EWEEK—Future Cities
FIRST (For Inspiration and Recognition of Science and Technology)
Gateway to 21st Century Skills
GEMS
Girl Scouts of the USA
Girls Inc.
GoldieBlox
Great Lakes Science Center
How to Smile
Indiana Department of Education
Institute of Electrical and Electronics Engineers (The IEEE)
Instructables
Intel Corporation
Intel Computer Clubhouse Network
International Technology and Engineering Educators Association (ITEEA)
Inventionland
Iowa Children's Museum
LittleBits
Louisiana Children's Museum
Louisiana State University, College of Engineering
Louisiana STEM Girls Collaborative Project
MaSTEM (NGCP)
MAKE Magazine
MAkeSpaceBook
MathInMiddleSchool
Mid-Atlantic Girls Collaborative Project (MAGiC)(NGCP)
Museum of Discovery and Science
Museum of Science, Boston
MyFixitUpLife
NASA
National Academy of Engineering (NAE) "Changing the Conversation"
National Building Museum
National Coalition of Girls Schools
National Council of Examiners for Engineering and Surveying (NCEES)
National Engineers Week Foundation (EWeek)
National Girls Collaborative Project
National Society of Black Engineers (NSBE)

National Society of Professional Engineers (NSPE)
New York Hall of Science
North Carolina State University
Northern Illinois University-STEMFEST
Northrop Grumman
Ohio Technology Education Association
POWER.ORG
Project Lead the Way
Purdue University
Resource Area for Teaching (RAFT)
Rockwell Collins
Rutgers University School of Engineering
Science Buddies
SciGirls
Seminole Ridge High School (Loxahatchee, FL)
Siemens STEM Academy
Society of Manufacturing Engineers (SME)
Society of Women Engineers (SWE)
Southampton Community College
Spark Truck
Stevens Institute of Technology
Swift Optical
Texas Tech University T-STEM Center
Thanksgiving Point Museum of Ancient Life
The Children's Museum of Indianapolis
The Coalition Science After School
The Engineering Center
The Lemelson-MIT Program
The Maker Mom (Kim Moldofsky)
ThinkPort
United States Patent and Trademark Office
University of Akron, College of Engineering
University of Wisconsin - La Crosse
University of Wisconsin, Platteville - Women in Engineering, Mathematics, and Science Program
University Transportation Center (UTC) at Cleveland State University
Westlake City Schools
Wichita State University, College of Engineering
YMCA of the USA

106 Partner Orgs and counting...



as built on TV™



Discover Engineering
Family Day at the
National Building Museum
in Washington, D.C.



watch videos

play games

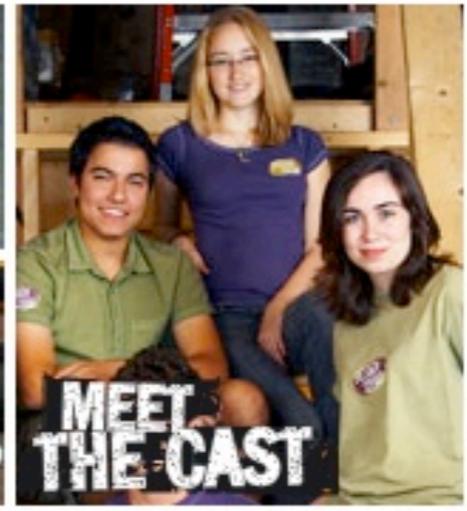
build projects

PARENTS & EDUCATORS
ENGINEERS
ABOUT THE SHOW

as built on TV



WATCH THE
PVC KAYAK
CHALLENGE



Find out when DESIGN SQUAD
is on in your town.



Corporation
for Public
Broadcasting



Education



NORTHROP GRUMMAN
Foundation



NOYCE
FOUNDATION





TREJONDA



as built on TV

CHALLENGES - SEASON 2

CHALLENGES - SEASON 1

CAST - SEASON 2

DEWEY

DEYSI

JASON

KIM

LEAH

NICK

TOMAS

TREJONDA

NATE - HOST

CAST - SEASON 1

GAMES

PROFILES & VIDEO

BUILD PROJECTS

ENGINEERS

PARENTS & EDUCATORS

HELP



Family influence:
My step-father has had the biggest effect on my being interested in engineering. He and I are the "handy men" in the house.

Dream pet:
When I get older I want to have a pet monkey.

Favorite recent invention:
Cell phones and robots because both provide help for people, families, and communities.

Engineering hero:
I am honestly inspired by all black inventors.

What superpower would you like to have?
To always be right, and always get my way!

Favorite type of problem to solve:
Math problems, and social problems.

Ideal Design Squad challenge:
Create a dummy that can act as a testing subject for different things.



[Home](#) | [Challenges](#) | [Cast](#) | [Games](#) | [Profiles & Video](#) | [Build Projects](#)

[Engineers](#) | [Parents & Educators](#) | [Site Map](#) | [Help](#)

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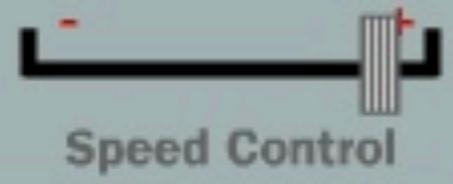
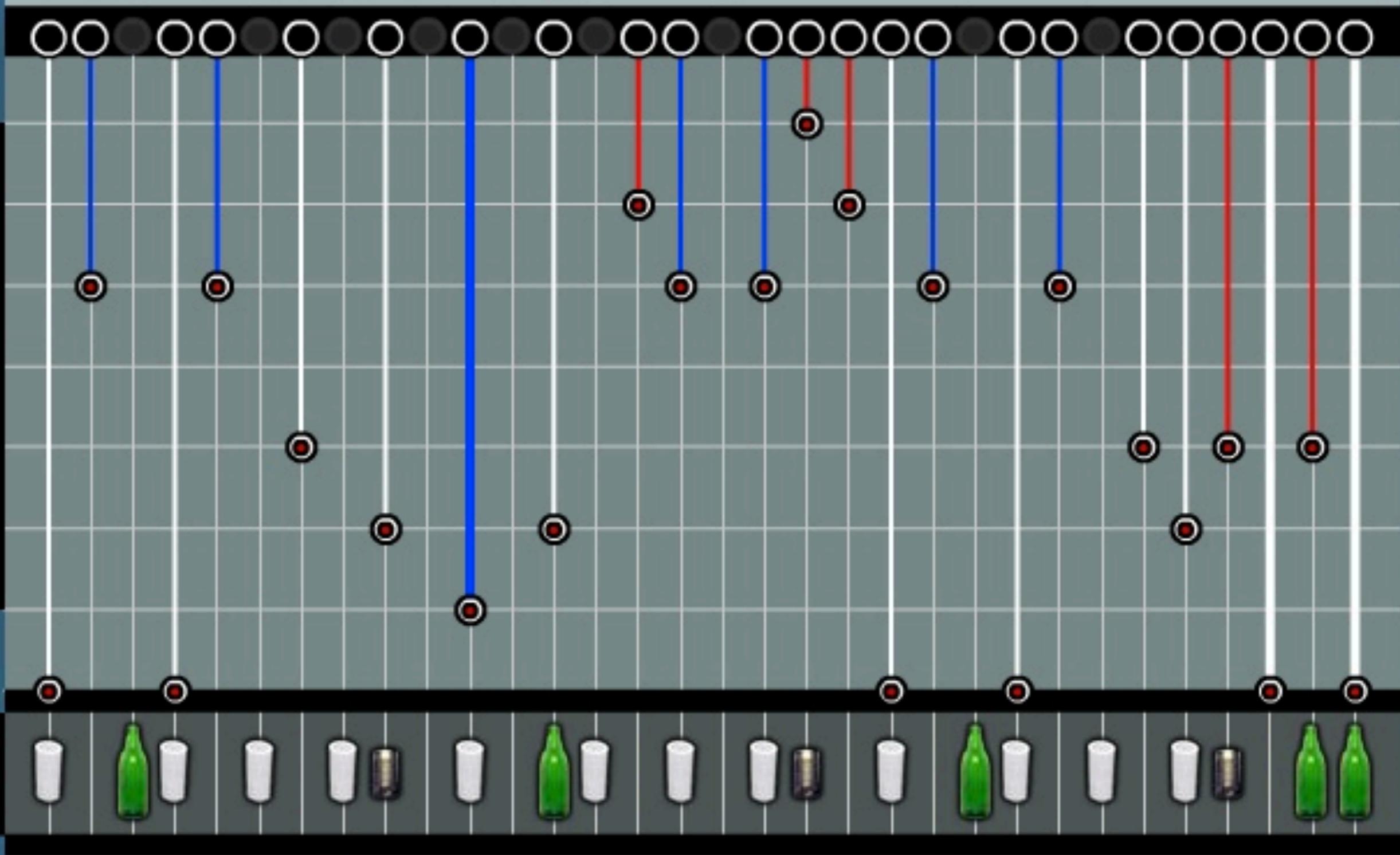
spoiler alert: kids love games

HOW TO PLAY

HOW SOUND WORKS

DEMO TRACKS

● Acoustic ● Electric ● Synth



Speed Control



Play



Trash



Clear All

<http://pbskids.org/designsquad/games/>

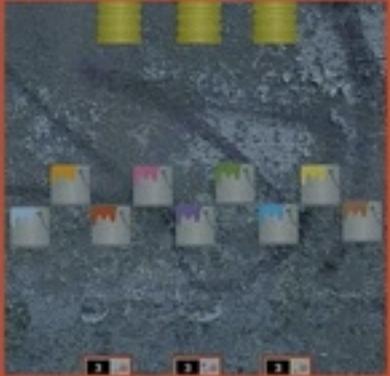
DESIGNIT BUILDIT
FIDGIT

Hello! Click me to learn How To Play.



LOGGED IN: LOG OUT
gbhdave

START A CHALLENGE



Solve these challenges and save the Fidgets!

BUILD + SHARE



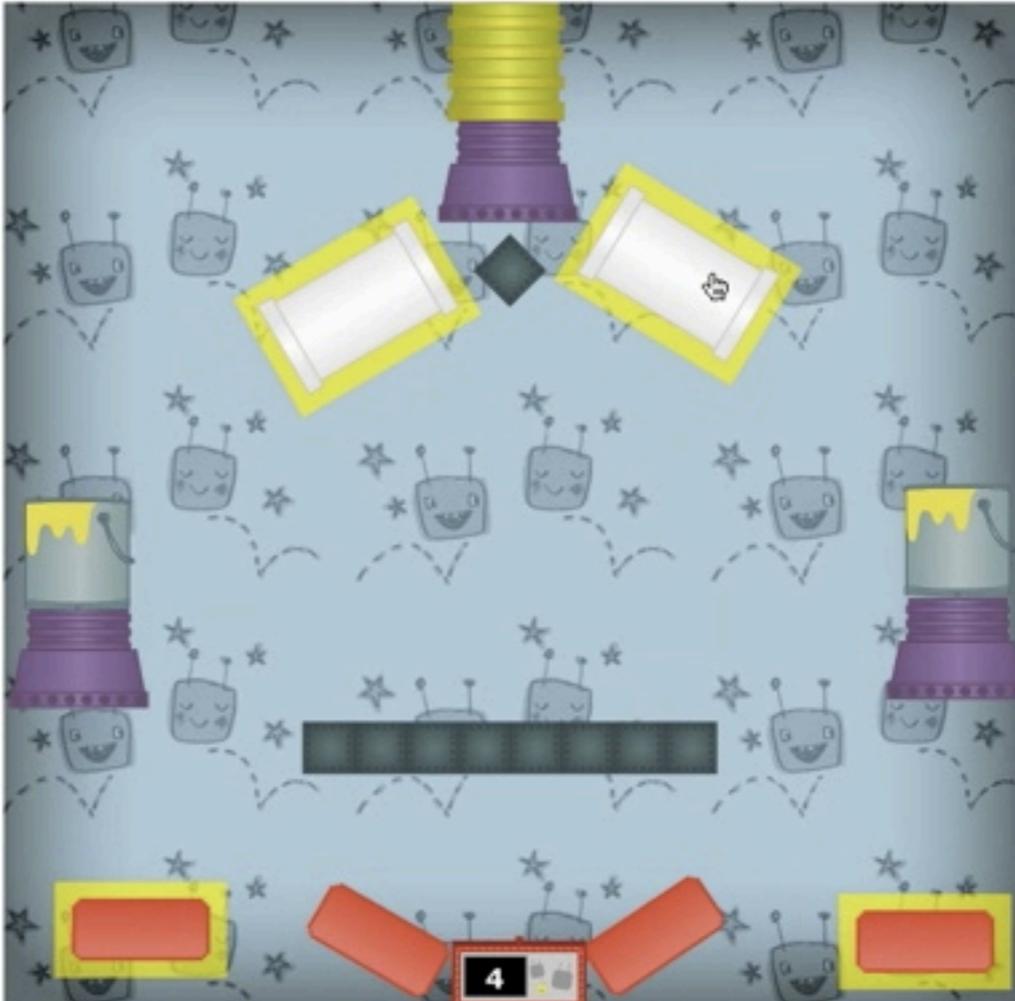
Build your own rooms for your Fidgets, and then share them with your friends!

YOUR FRIENDS

- WiseYoda
- iLuvEggplant
- fidgitwidgit
- jinxy
- vladmire
- kwana612
- cjc24
- silvia

ADD A FRIEND

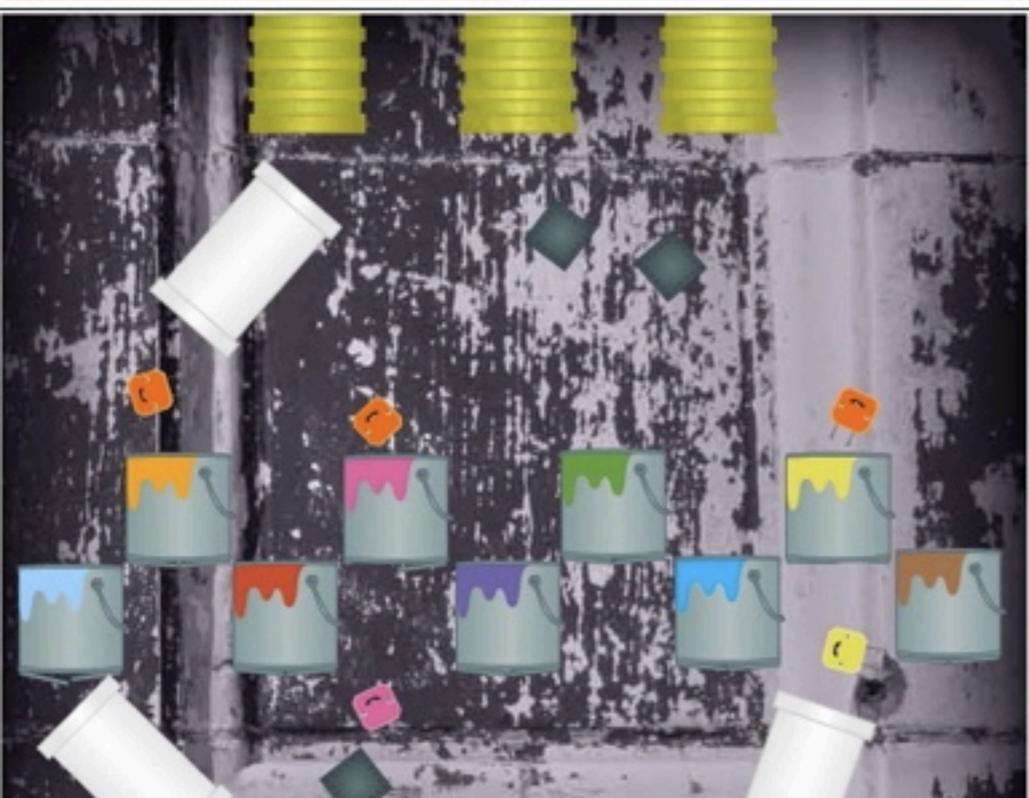
Click on me for help!



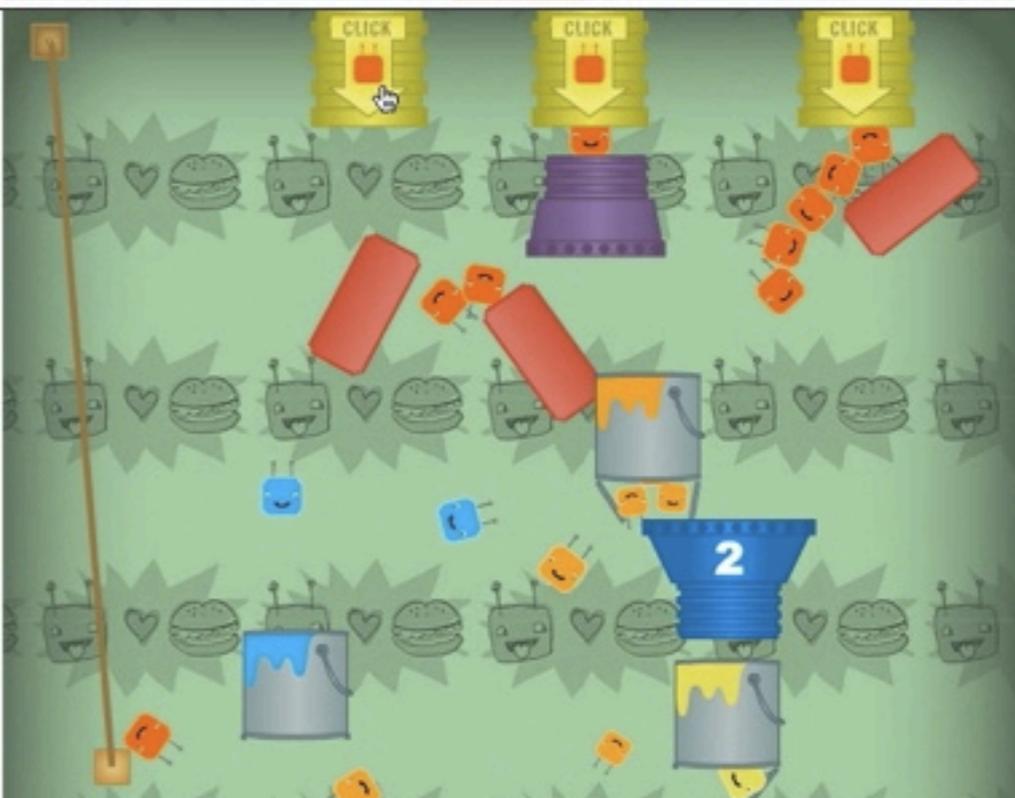
GO BACK

MOVE M ROTATE R CUSTOM C

PLAY BUILD SAVE Need help?



GO BACK



CLICK

GO BACK

So, did we change the world yet?



as built on TV

Evaluation

...Has a **significant impact on children's understanding of engineering and attitudes toward engineering.**

After watching four episodes of the program, children were significantly more likely to agree with three statements about the work engineers do:

- 1. engineers help make people's lives better,*
- 2. engineers solve problems that affect real people, and*
- 3. engineers sometimes have to test their work and start over again.*

(Goodman Research Group, 2008)



as built on TV

Evaluation

In addition, **children's design process skills improved**, and they demonstrated a good understanding of the science and engineering concepts presented in the programs.

Nearly **two-thirds of the children were interested in participating in an engineering afterschool program after viewing**, compared to just below one-third prior to viewing.

(Goodman Research Group, 2008)



as built on TV™

Evaluation

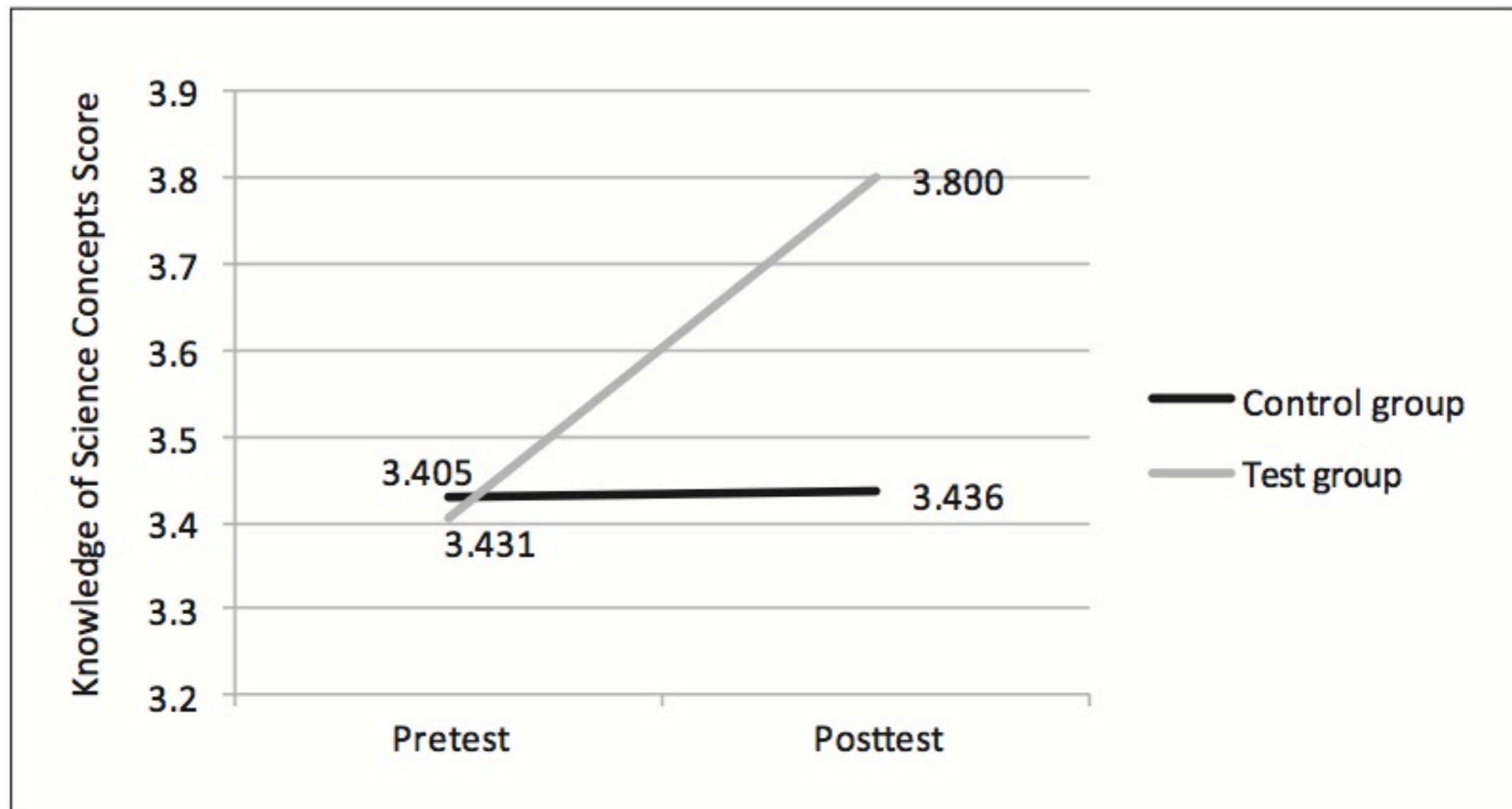
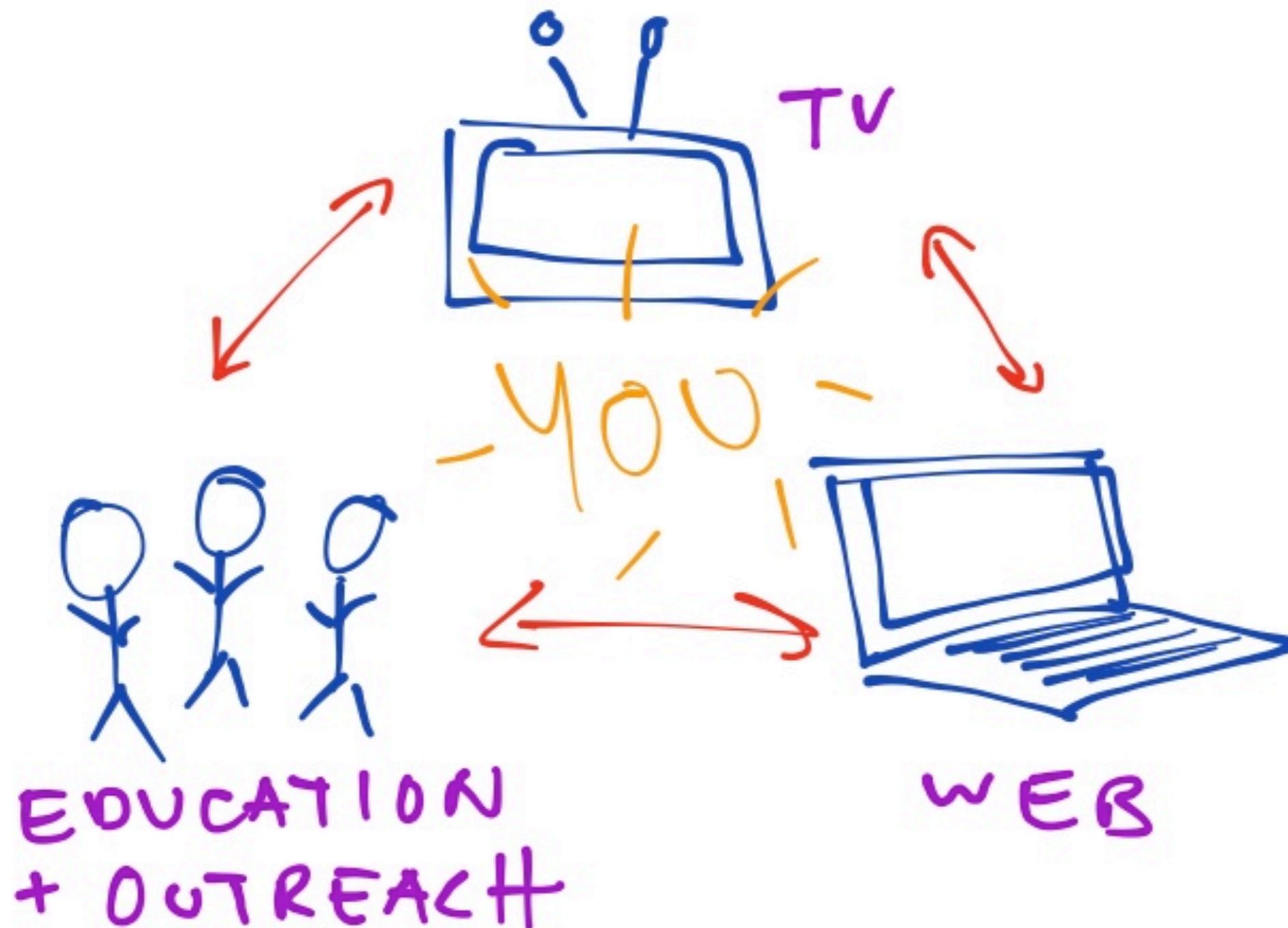


Figure 4 Gains in understanding of key science concepts after students were shown episodes of *Design Squad* in their middle school science classrooms. Source: Adapted from Concord Evaluation Group, 2010.

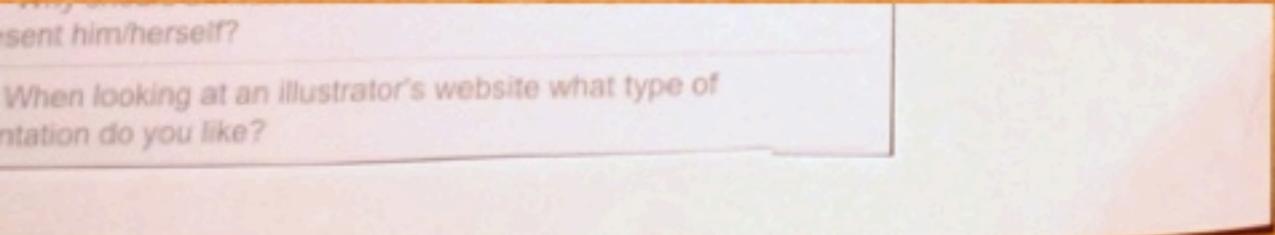
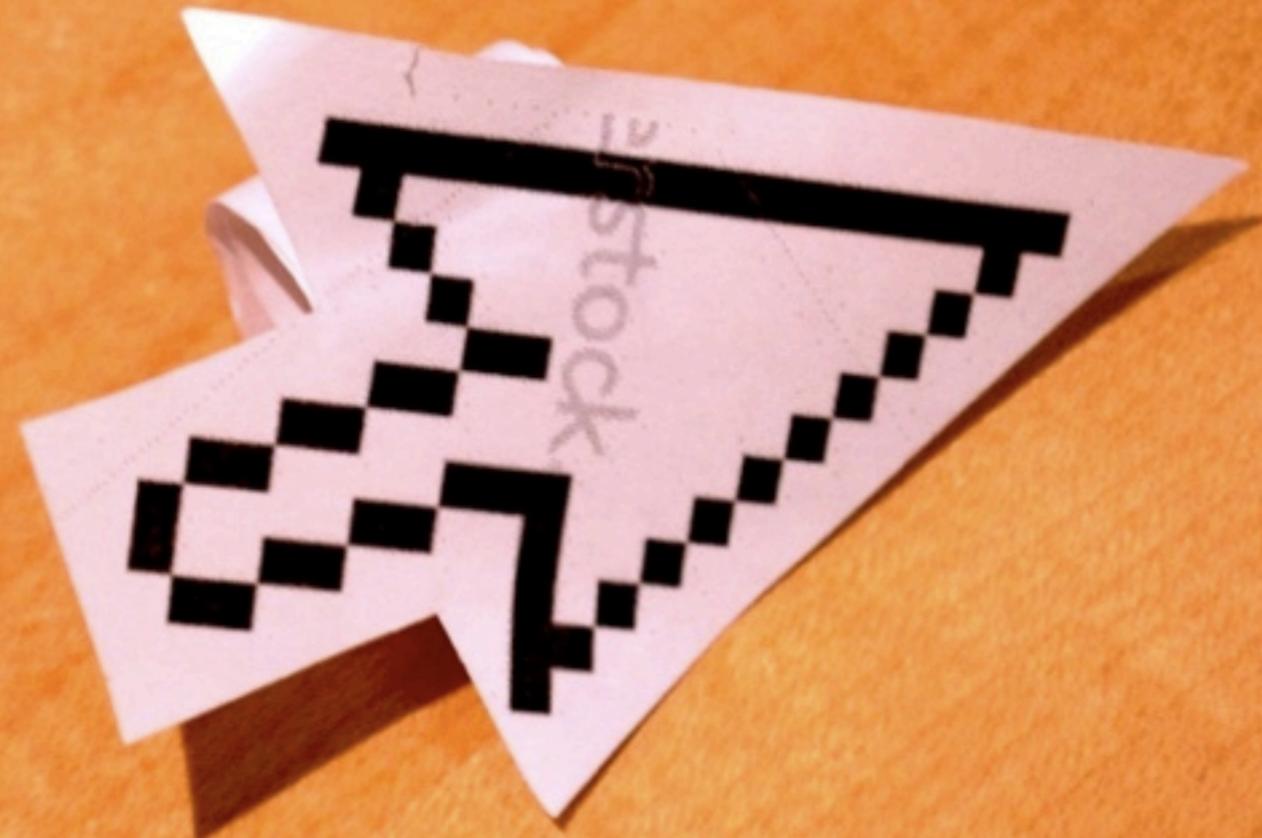


as built on TV™

1.5



Inviting kids to share their creative engineering ideas



We did focus groups to see what inspired kids



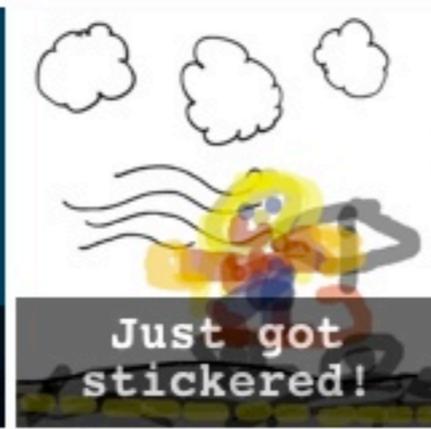
Parents & Educators

Engineers

About the Show



WHAT'S NEW



Presented By:



Major funding for Design Squad provided by



the Lemelson foundation
improving lives through invention

Additional funding for Design Squad provided by



Design Squad Site as re-launched in 2009



as built on TV

- SEASON 3
- SEASON 2
- SEASON 1
- DS XCHANGE
- HOME
- WISHES
- SKETCHES
- PROFILE

- GAMES
- CONTEST
- BUILD PROJECTS
- PROFILE VIDEOS
- ENGINEERS
- PARENTS & EDUCATORS
- HELP

Home

Wishes

Sketches

Profile

Take your ideas to the next level!
Which way will you do it?

UPLOAD A PHOTO

GO TO THE SKETCH PAD!

Sketch Gallery

Most Recent

Most Stickers

All Challenges



submitted by Ejoslin 0 stickers



submitted by saddle62 7 stickers



submitted by cay11 1 stickers



submitted by cay11 0 stickers



submitted by cowgirly 0 stickers



submitted by jujuhfogaca 3 stickers



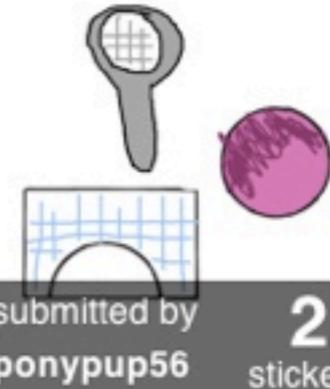
submitted by jujuhfogaca 0 stickers



submitted by jujuhfogaca 4 stickers



submitted by ssbfd 1 stickers



submitted by ponypup56 2 stickers



submitted by 2



submitted by 1



submitted by 3



submitted by 0



submitted by 0



Kids give virtual stickers to each other as encouragement!



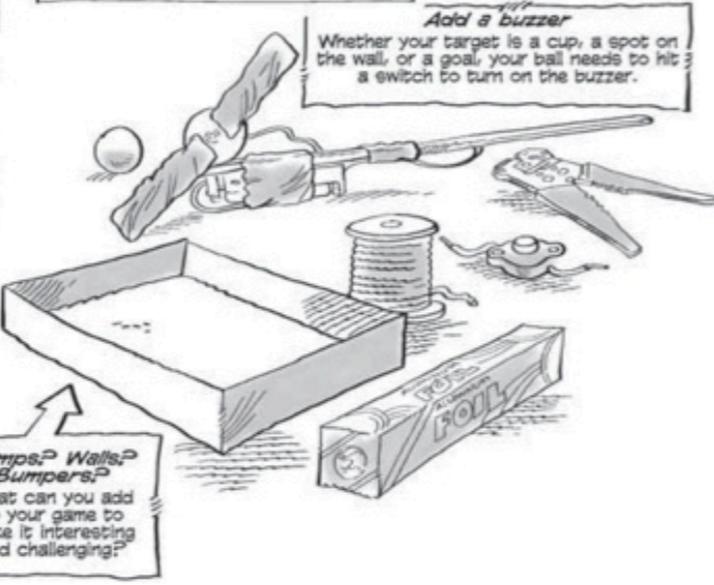
http://pbskids.org/designsquad/parentseducators/guides/teachers_guide.html

ELECTRIC GAMEBOX

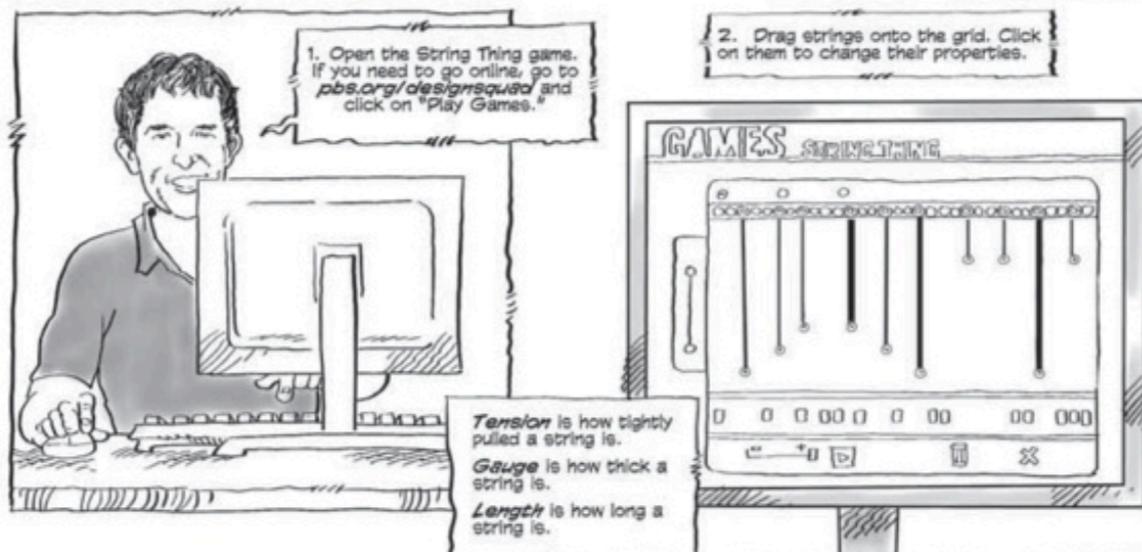


BRAINSTORM

DESIGN AND BUILD



THE STRING THING GAME



3. List three ways to lower a string's pitch.



5. Which changes the pitch more: increasing the gauge of a string by one click, or the length of a string by one fret?

6. How do you play the highest note possible?

7. List some reasons why adult voices are usually lower than kids' voices.

Major funding for Design Squad provided by: Additional funding for Design Squad provided by:



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1. identify the problem
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5. share



Watch series preview:

<http://www.youtube.com/watch?v=xtTowE8NL10>

Jan 2011

2.0

Create

Pool450 says...

I wish every car was solar powered!



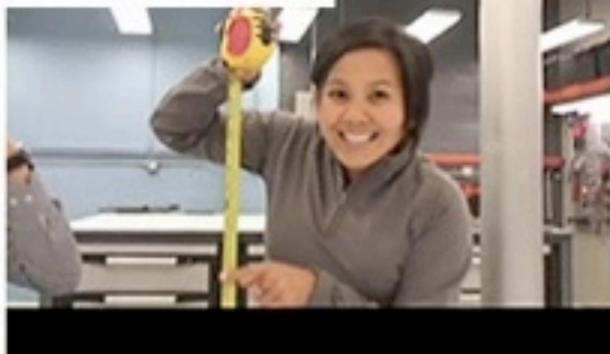
10 sketches



16 prototypes

"Engineering is about making dreams come true"

Watch



Play



Trash 2 Treasure Winners!
October 28, 2010 10:04 AM

Meet the Grand Prize winners of the 2010 Trash to Treasure competition! Lilly, MaryAnn and Daniel came to Boston to see their designs built by Continuum, a design consultancy. Watch the video!

[Read More](#)

Major funding

Series funding

Additional funding



NORTHROP GRUMMAN
Foundation

the Lemelson foundation
improving lives through invention

NOYCE
FOUNDATION



MOTOROLA



IEEE

Presented by:



[Find another PBS Station](#)

Design Squad Nation is produced by WGBH Boston.

Major funding is provided by the National Science Foundation. Series funding is provided by the National Aeronautics Space Administration (NASA), Northrop Grumman Foundation, and the Lemelson Foundation. Additional funding is provided by Noyce Foundation, United Engineering Foundation

Create

JuanDSN says...

I wish I could turn my clothes into something more fun.



"Fashion moves, fashion lives...
I want to be a part of that."

Watch



Play



My New Favorite Toy - The Laser Cutter
February 22nd, 2011 02:32 PM

Curious how Eduarda and I created the origami-inspired pattern for our gown? We used one of my favorite new toys -- the Laser Cutter. This machine allows us to create a number of precise cuts in the fraction of the...

[Read More](#)

Major funding

Series funding

Additional funding



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Foundation

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NOYCE
FOUNDATION



MOTOROLA

IEEE

Presented By:



Design Squad is not airing this week.
Check the [TV Schedules](#) for more information.

Create

Ibonkygirl says...
I wish to turn trash into something useful!



13 sketches



1 prototypes

"My invention is coming to life.
This is amazing!"

Watch



Win



DSN Ep10: Trash to Treasure!
March 30th, 2011 04:09 PM

For the season finale, Design Squad Nation asked kids across the country to recycle, re-use, and re-engineer everyday materials into the next big invention in the 2010 Trash to Treasure contest. Three grand-prize winners visit Boston to work with...

[Read More](#)

Major funding

Series funding

Additional funding



NORTHROP GRUMMAN
Foundation

the **Lemelson** foundation
improving lives through invention

NOYCE
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MOTOROLA

IEEE

Presented By:



Design Squad is not airing this week.
Check the [TV Schedules](#) for more information.

Meet the Heroes

dreaming big, making it real

 [Watch Video](#)



Adam



Judy



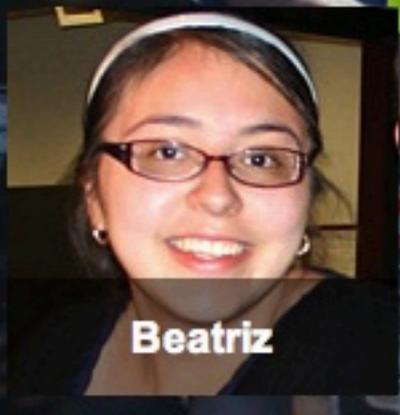
Justin



Felipe



Fabretto School



Beatriz



Juan



Eduarda



Mariam



Bert



Jennifer



Ronnie



MaryAnn

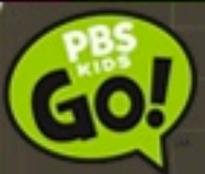


Lilly



Daniel





DESIGNsquad.

Nation

Projects

Video

Games

Blog

Parents & Ed

★ Heroes



Make a wish to start a new project.

I wish...

Add Wish

I wish for a T-shirt shooter!

Newest

Popular

Featured

Kaymaster8 says...

I wish for a jacket with a hood that becomes an umbrella

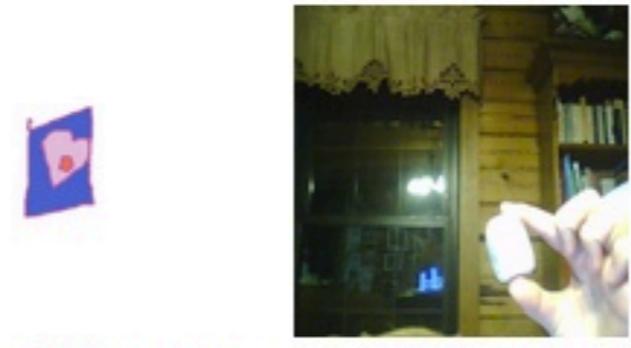


40 sketches

1 prototypes

ellis41 says...

I wish i wish... that there was an eraser that erases better.

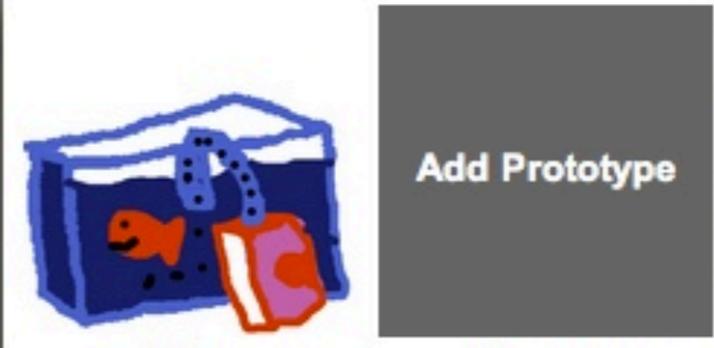


20 sketches

1 prototypes

moira123 says...

I wish i wish... for a self feeding fish tank



29 sketches

0 prototypes



EduardaDSN says...

I wish for an outfit made out of uncommon materials.

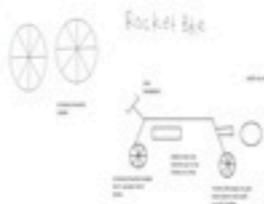


28 sketches

1 prototypes

New Inventor says...

I wish there was a green way to transport fresh local food.

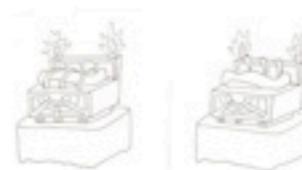


45 sketches

2 prototypes

JenDSN says...

I wish I could design a cake that moves!



117 sketches

1 prototypes

bridgetangel says...

I wish for a hat that could change into other hats and i could pic t...



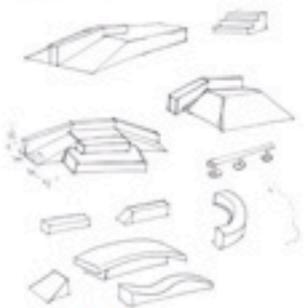
Add Prototype

33

pick me, pick me!

RonnieDSN says...

I wish for an awesome street course for skateboarding.

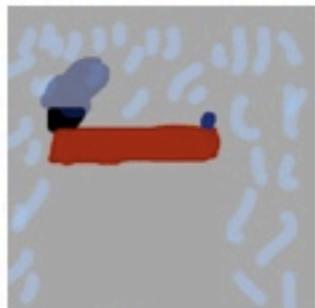


40 sketches

1 prototypes

mano60 says...

I wish I had an umbrella that hovers above you

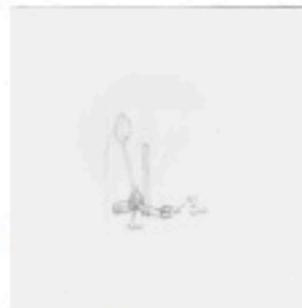


24 sketches

1 prototypes

carlycat4 says...

I wish for a water balloon launcher



28 sketches

2 prototypes

engineeratti says...

I wish for a way to grab objects too far to reach.

Add Sketch

Add Prototype

0 sketches

0 prototype

Dolly2677 says...

I wish there was a way to save the endangered animals



9 sketches

1 prototypes

icarly7844 says...

I wish i had a machine that can make my room be super clean



26 sketches

1 prototypes

celey says...

I wish there was a way to solve the world's energy problem!



Add Prototype

17 sketches

0 prototypes

lbonkygirl says...

I wish for a new kind of water toy



618 sketches

3 prototype



DESIGNsquad

Nation

Projects

Video

Games

Blog

Parents & Educators

★ Heroes

Me

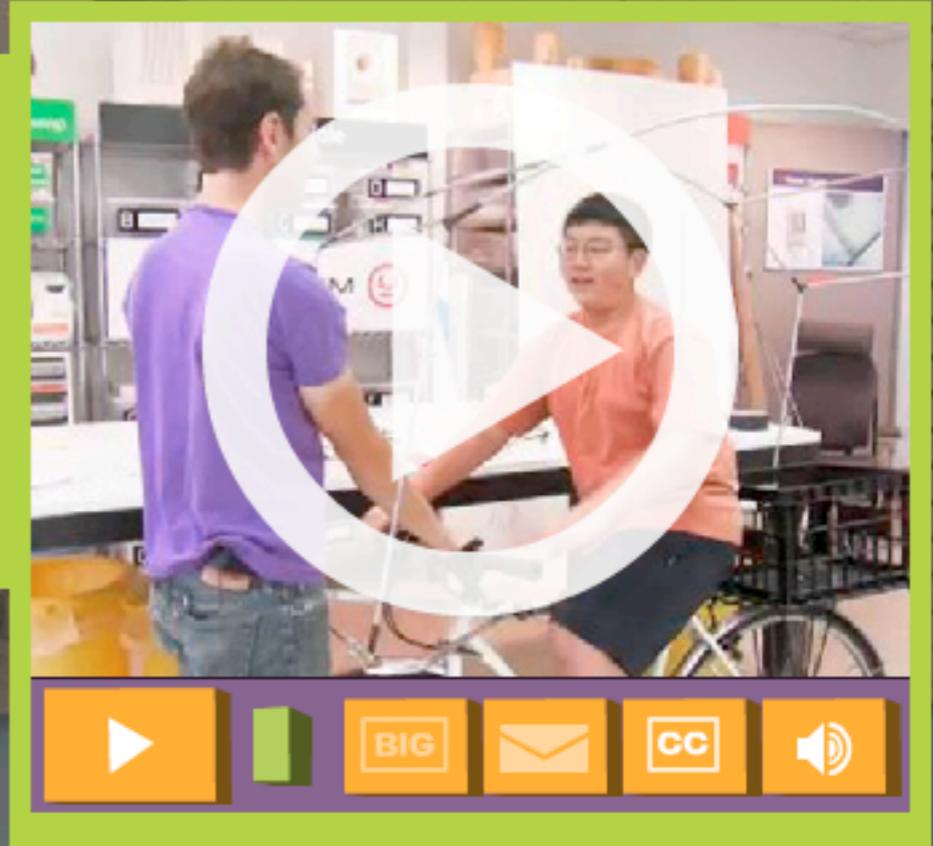
Ibonkygirl says...



I wish to turn trash into something useful!

146 stickers

[Login to add your own ideas to this project!](#)



Sketches

Show me: [Newest](#) [Popular](#)

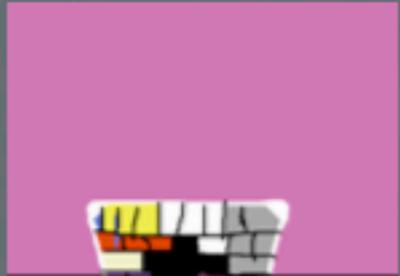
Prototypes



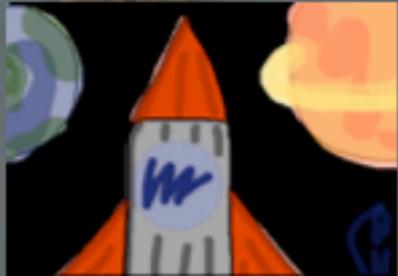
Trash Hat **1** stickers
by LondonHo20c



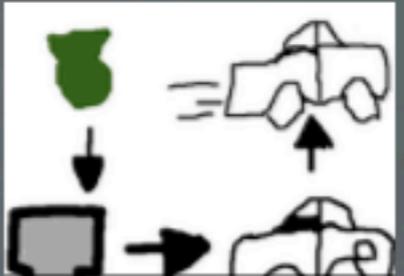
outer trash **1** stickers
by lizzie09800



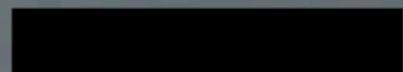
recellcyl **3** stickers
by girgir4



a trash can r... **4** stickers
by jaylin9j



1 stickers
by jayapril110


track

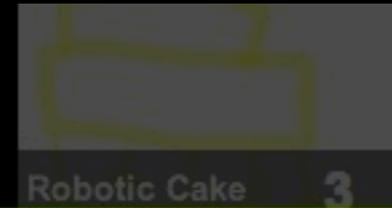





wished by
JenDSN:



moving cake 9



Robotic Cake 3



I wish I could design a cake that moves!



created by
val197549:

the glow cake

it is a cake that glows in the dark
and sings happy birthday and the
smile moves when it sings



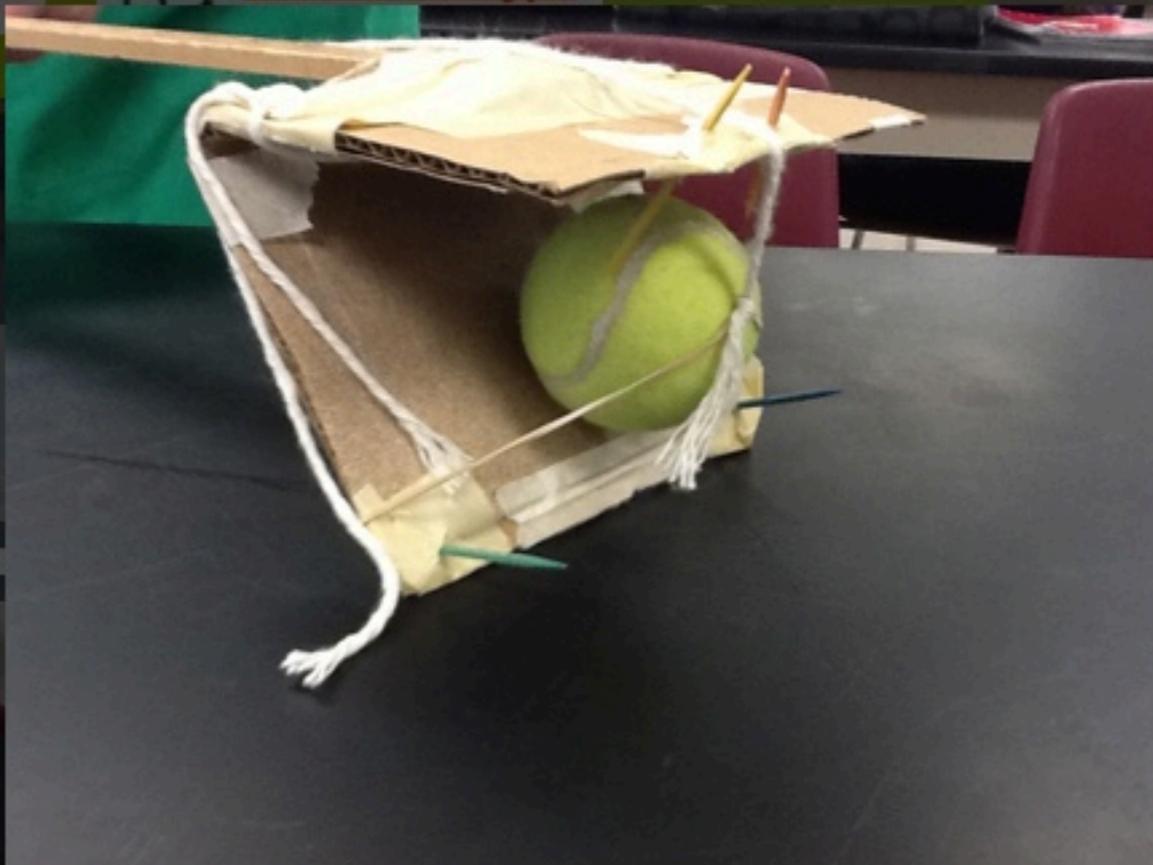
7
stickers

Give a Sticker Below!



wished by
engineeratti:

I wish for a way to grab objects too far to reach.



created by
New Inventor:

The Mini Monster

We built our machine out of cardboard, string, tooth picks, tape and a yard stick. With our machine we picked up a water, tennis ball, a cup, cotton ball. The string opened and closed the mouth and the tooth picks picked up tools.

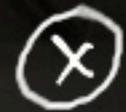
1

stickers

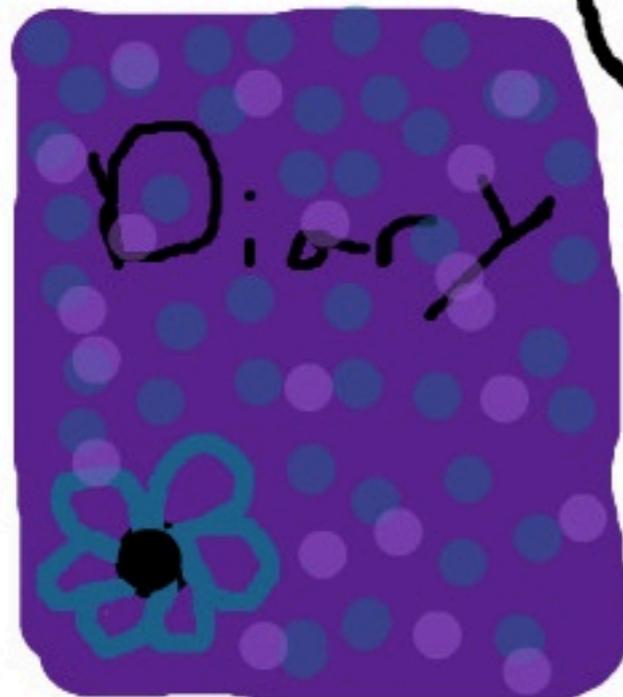
Give a Sticker Below!



wished by
[EngineerAdam](#):



I wish for a hidden alarm for my stuff!



created by
[princess4720](#):

diary alarm

this is a diary alarm. it watches your diary so nobody will look in it, lets just say to keep little or big brothers or sisters away. and if it does see somebody trying to look in your diary it sounds a alarm. thanks for looking.

3

stickers

Give a Sticker Below!



wished by
JudyLee:



I wish for furniture made of paper!



created by
Yamma456:

Yamma456 Table
Easily holds two phonebooks!!

4
stickers

Give a Sticker Below!



wished by
porQpinz:



I wish I had colorful light-up socks!



created by
Caroonster:

glow in the dark socks
guess what you can do this, just
ask your parents to paint your
socks with glow-in-the-dark
paint!!!! and i did it its cool. Now
glow try it every-1!!

3
stickers

Give a Sticker Below!



wished by
[rmb13:](#)



I wish there was a way to feed my cat when I'm not in the room.



created by
[clerpy:](#)

under the door

you fill it with cat food and push start and it will shoot the food out

2

stickers

Give a Sticker Below!



wished by
JudyLee:

I wish for furniture made of paper!



created by
blackie282:

paper mache furniture
the furniture is made of comic
strips.

33
stickers

Give a Sticker Below!



The BUILD BIG Contest

Design Squad Nation challenged you to choose an activity from the DSN Web site, form a team, and build your own super-big version. Then take a video of your working design and upload it to YouTube.

We were impressed by the number of amazing BIG projects we received! Every team did outstanding work. Our judges looked at every entry carefully before selecting our finalists, runners up and grand prize winner. Congratulations!



Grand Prize Winner

String Thing
by Paul, Kalin and Robert

"Together, my group and I took the Design Squad project String Thing and took it to the next level. The original String Thing is virtual game, but we brought it out and made it in REAL LIFE, BIG! The lineup is made from nine separate sections with nine strings on each section. Strings are made from rubber bands, which are attached to "sound boxes." The boxes are each handmade from plywood and serve to amplify the sound of the rubber band being strummed (like a guitar). Each string is tuned to a different note based on where markers are placed to hold the string down. It is played by a player running down the length of the boxes. In the video, our lineup is set up to play the classic piece "Jesu, Joy of Man's Desiring" by J.S. Bach, but is totally customizable afterwards (by moving the markers on the strings)."



Watch winning competition entries

<http://www.youtube.com/playlist?list=PL92A533770D7F109E>

1. identify the problem
2. brainstorm
3. design
4. build, test, redesign
5. share

AGAIN

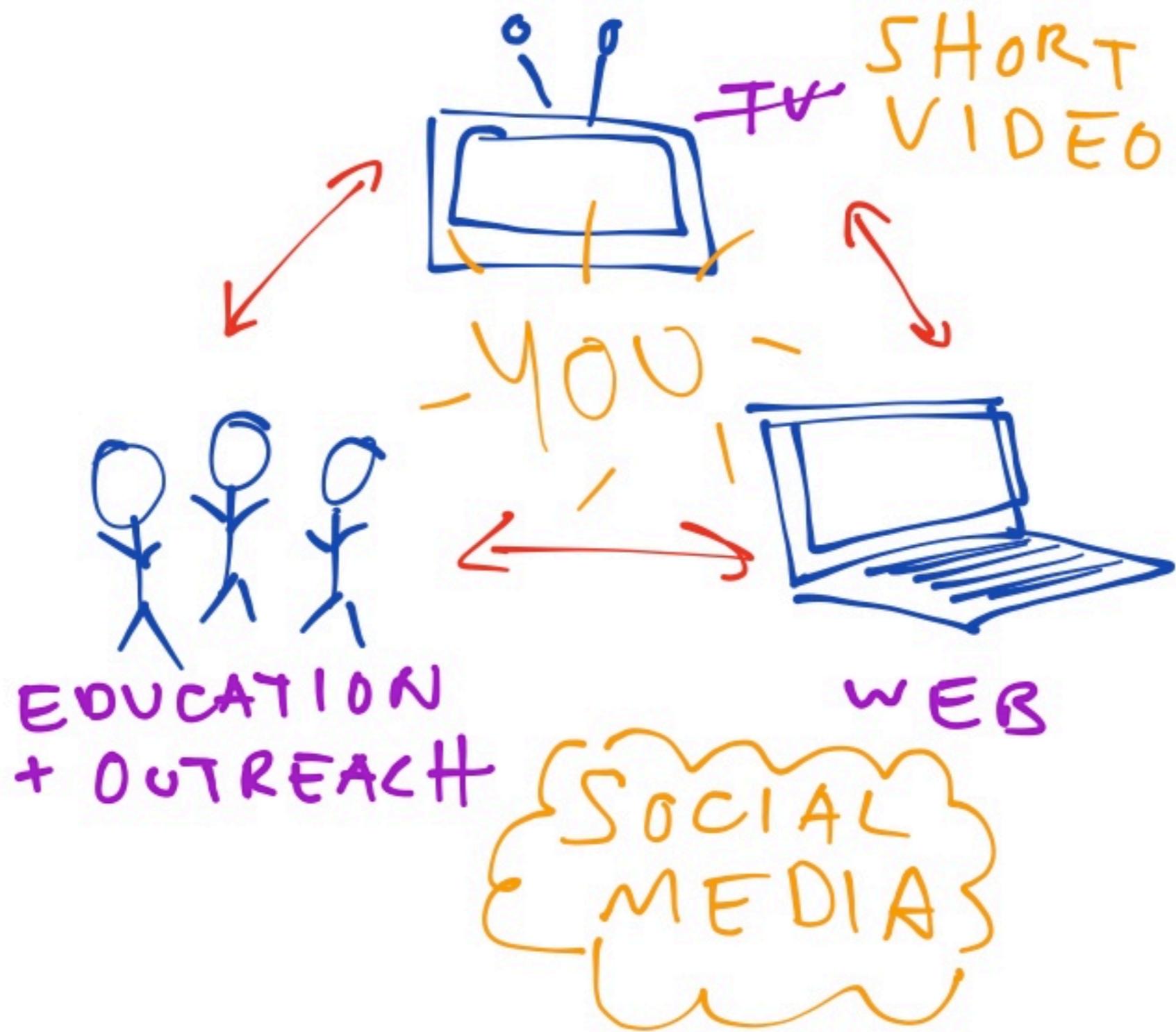
DESIGN squad[®]

Nation

Dream It. Build It. Live It.

July 2012

3.0



Talking to Kids! Some notes from our many focus groups...

Have you ever built anything?

- Hockey stick, with wood stick and blade, customized it
- Angry Bird out of paper and sticks. Threw it at stuff
- Snowman (LOTS of kids said this)
- LEGOS (about half the class)

Volcano (EVERYONE!)

- Light house (was a class project). Liked it because it was fun & used materials at home
- A red sweater

What do you want to build?

- Snowdog, but don't know how
- Instructions are boring because you have to read them
- LEGO apple
- Homework machine
- Jack o'lantern
- Half said they want to decorate things
- Xmas light remote

Join DSN Now

It's FUN + EASY!



DESIGN Your World

What's new?

Keep a frozen treat from melting when you're on the go!
Turn your everyday lunchbox into one that can stay cool on a hot summer day.

Get Our Texts

Build



Build a Better Lunchbox

Find



Answers to your questions

Play



Our newest game

What stuff do you like?

Outdoors

Fashion

Sports

Art

Music

Robots

Animals

Games

Vehicles

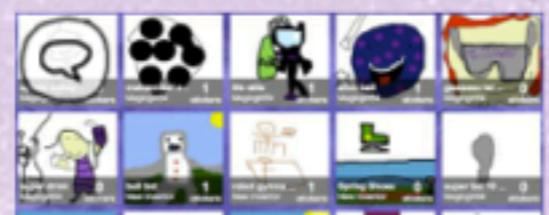
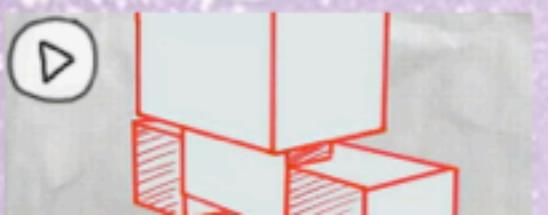
Food

Flying

Funny

Friendly

Random



What stuff do you like?

Outdoors

Fashion

Sports

Art

Music

Robots

Animals

Games

Vehicles

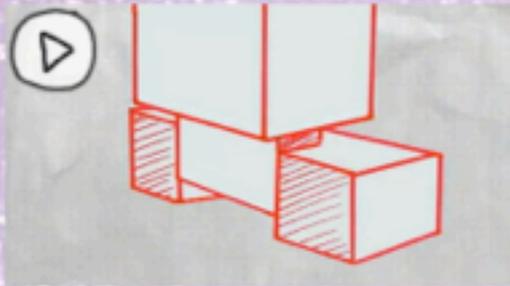
Food

Flying

Funny

Friendly

Random



How Do Joints Work?

When you build things out of wood, like furniture and roofs, how do you connect the pie...



PVC Kayak

It's sink or swim time! In this episode, a master kayak builder challenges the Design S...



Join the Team

There's still time to join our super sporty Team Challenge!



Wall of Sound

This instrument lets you hear -- and see -- music in a whole new way!



Build a Better Lunchbox

Turn your everyday lunchbox into one that can stay cool on a hot summer day.



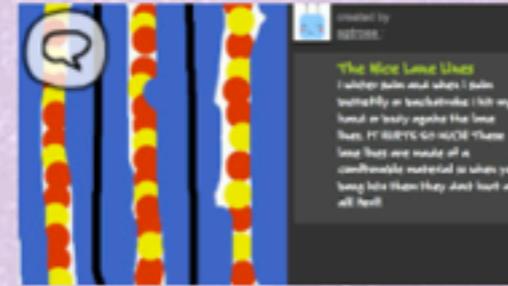
Better Lunchbox

Keep a frozen treat from melting when you're on the go!



How to Make a Better Lunch

Watch as Nate shares his tips for engineering a better lunch!



Safer Swim

Swim practice would be a lot more comfy with this design from DS Newbie agtrose!



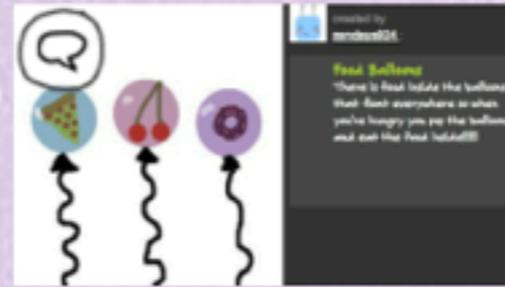
Why Do Boats Float?

We received this question from "anonymous!@" who asked us: "Why do boats float?"



Cardboard Furniture

Sit back and relax as the Design Squad teams create furniture out of recycled cardboard



Fresh Idea

DS Newbie zendaya924 would use balloon power to deliver fresh food. Nice!



Waterfall Swing Set

Just in time for summer: a new way to play! This swing set rains down as you ride, than

WATCH

Random Video!



Design Squad Visits The White House Science Fair

Go behind the scenes at the White House with Design Squad! DS hosts Nate and Deysi were special guests at the 3rd annual White House Science Fair. Kids from around the country were invited to the Science Fair to show off their awesome science and engineering projects to President Obama.

More epic stuff:



Build a Better Lunchbox



Better Lunchbox



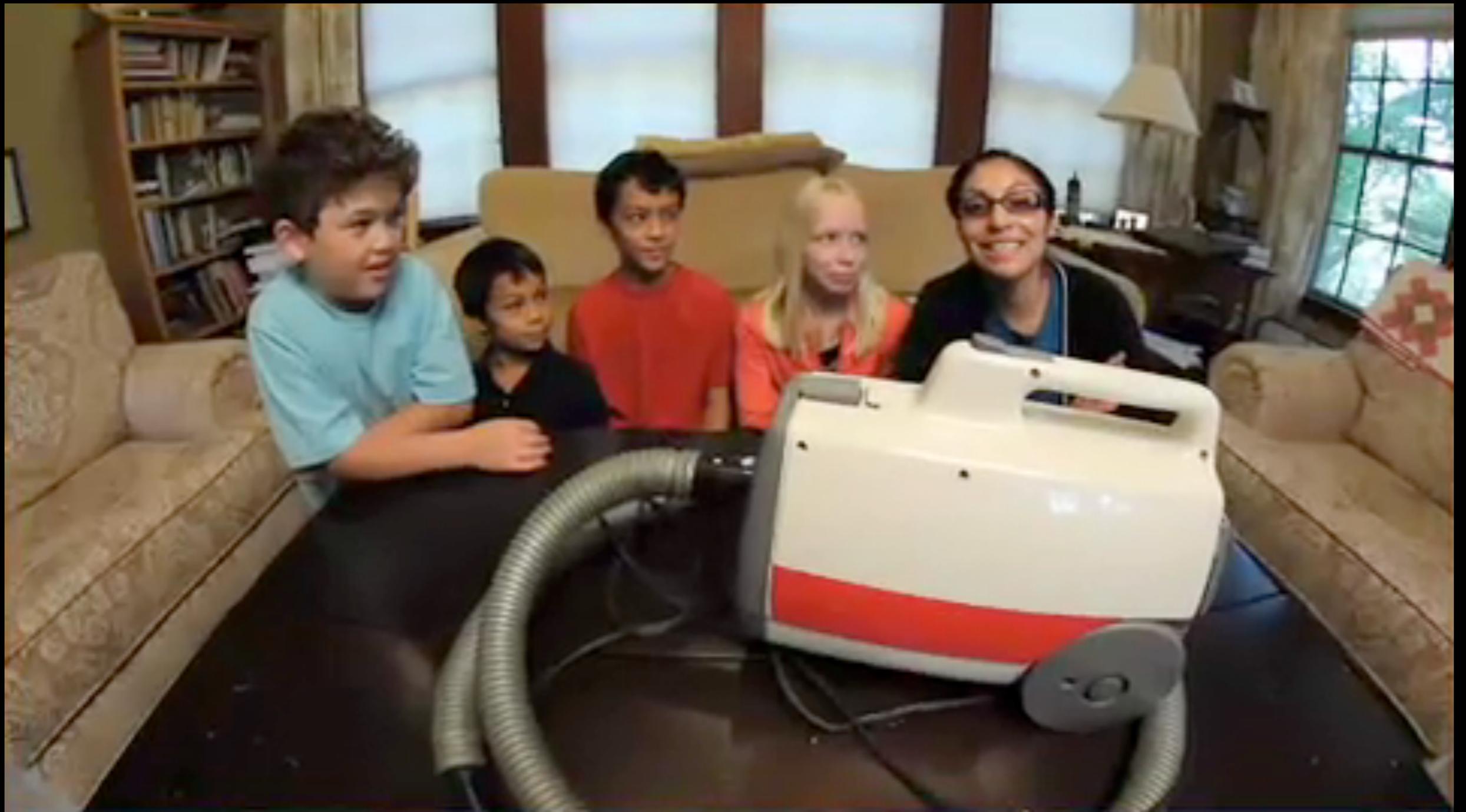
Make a Better Lunch



White House Visit



- | | | | | | | |
|----------|----------|-------|--------|----------|---------|-------|
| New | Episodes | Build | Heroes | Outdoors | Sports | Funny |
| Friendly | Fashion | Art | Food | Games | Animals | All |



Vacuum Hockey

Start an air hockey tournament in your own living room! Score big when you build an air hockey table out of a repurposed vacuum.

<http://pbskids.org/designsquad/video/vacuum-hockey/>

Your Ideas



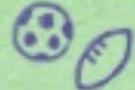
[All](#)



[Outdoors](#)



[Fashion](#)



[Sports](#)



[Games](#)



[Friendly](#)



[Food](#)



[Animals](#)

Serve up your food inventions right here!



[Add Your Idea](#)

Show Me:

[Newest](#)

[Popular](#)

[Featured](#)

New Inventor says...

"Glow in thw dark ice cream"

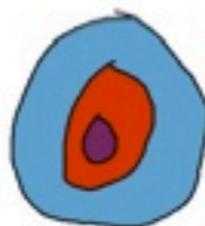


16 designs

markus207 says...

"A gum that has different colors and each color has a

15m	30	45
1:00	1:15	1:30
1:45	2:00	2:15



8 designs

LOL459 says...

"Make a vending machine that dispenses ice cream."



30 designs

sophia360473 says...

"i wish a ice cream have never melt in the sun :)"

New Inventor says...

"i wish there was a un meltible icecream"

jadanguyen says...

"Giant gummy bears."

How ice cream

Build

Marshmallow

Watch

Our robo-cake

Share

TEAM CHALLENGE



343 More Players
needed to complete the challenge



Earn this
SUPER-SPECIAL
sticker

Join Now!

DeysiDS says...
Design a self-cleaning
fish tank.



8 designs

[See Past Challenges](#)

More epic stuff:



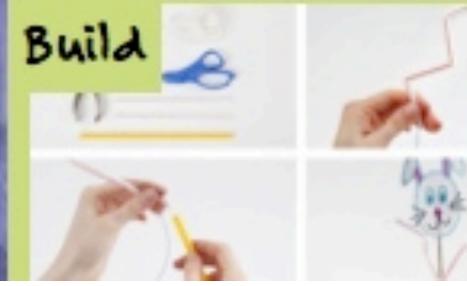
Take the Challenge



Our newest game



Add onto designs



Your Ideas

- All
- Outdoors
- Fashion
- Sports
- Games
- Friendly
- Food
- Animals

What cool stuff do you want to build?

Add Your Idea

food to people.

73
stickers



wished by
DeysiDS:

The Prize



0 More Players
needed to complete the
challenge

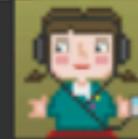
1. koolgirl013
2. New Inventor



Newest

Popular

Design a way to get fresh food to people.



created by
koolgirl013 :

Volunteering

This is me volunteering at the north-east Georgia food bank in Athens. We bagged up assorted bread for the food 2 kids program. We had to wear hair nets and gloves. I've never seen so many bagels in my life!



1
stickers

Give a sticker!

You have to be logged
in to give stickers!

The fast foo ...
mellisa300 2 stickers

portable kit ...
aquabluecew 1 stickers

the green sa ...
swize12 1 stickers

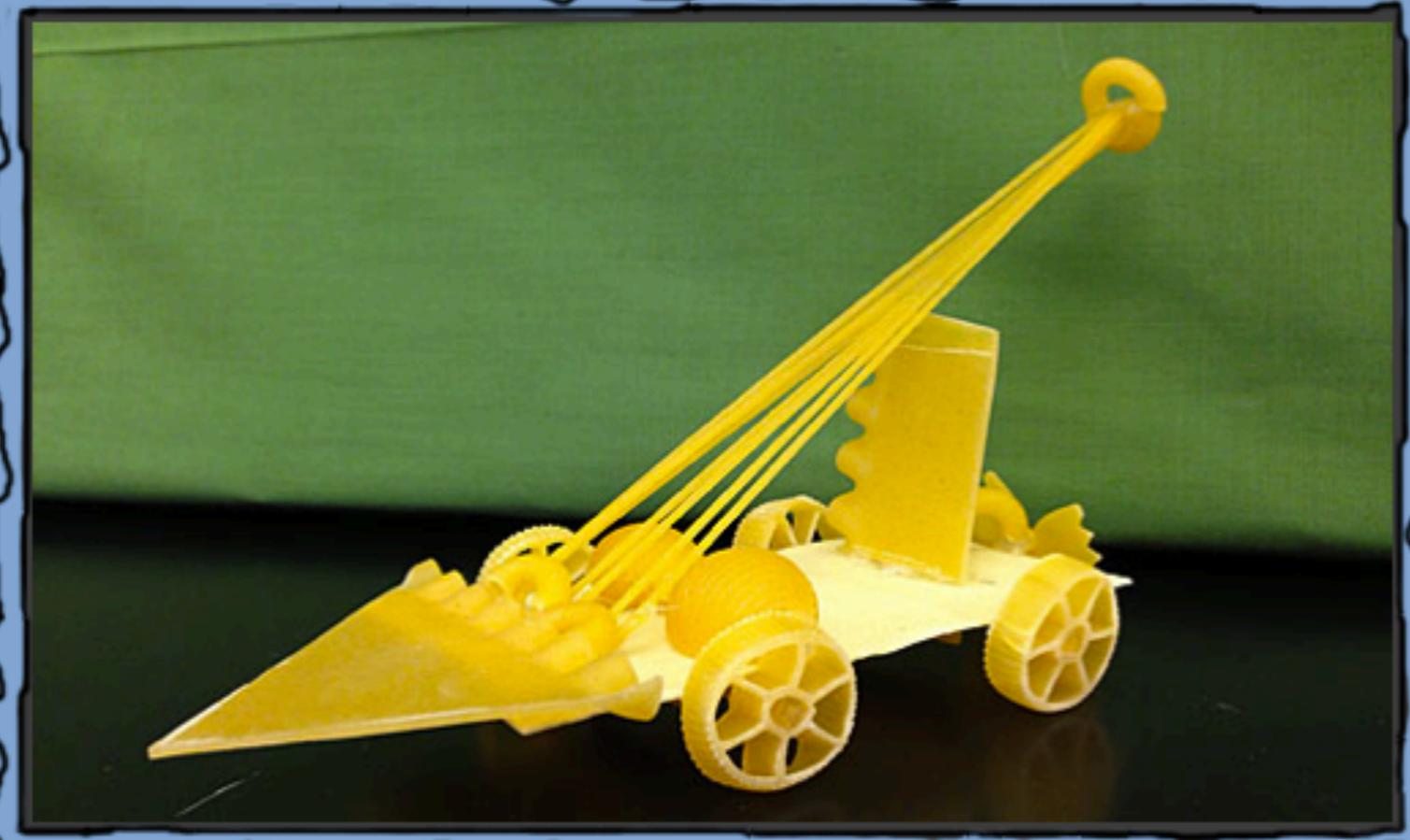
solar panel
frigs
1 stickers

Frige truck
lovegod3147 1 stickers

TOP BUILDER

Pasta Car

HOORAY!



More epic stuff:

Watch



Blender Bike

Build



Air Cannon

Watch



Repurpose Four Objects

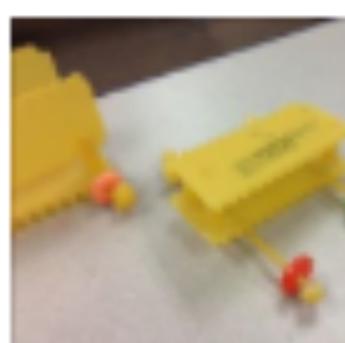
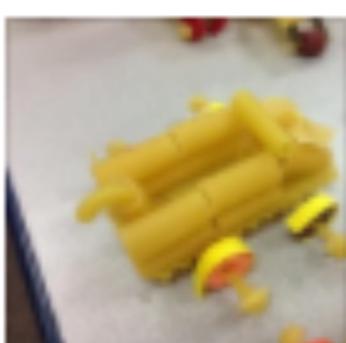
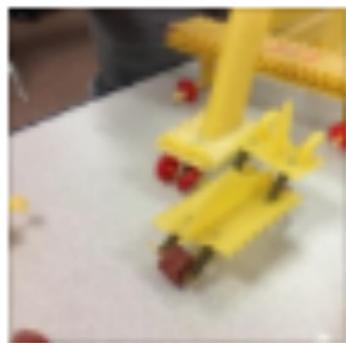
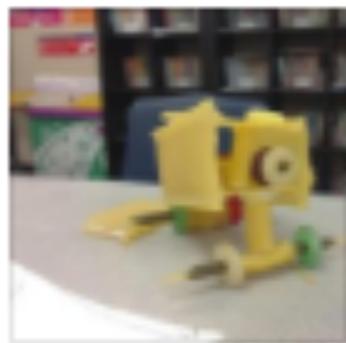
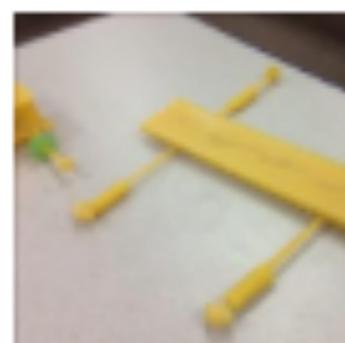
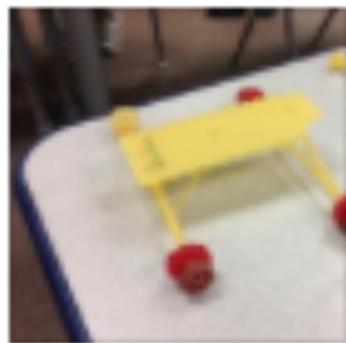
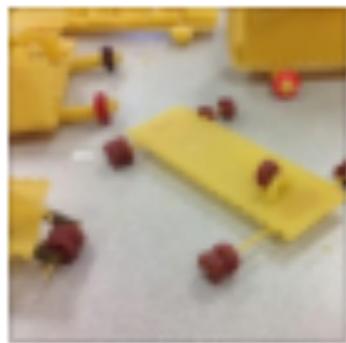
Build



Treasure Grab

Watch

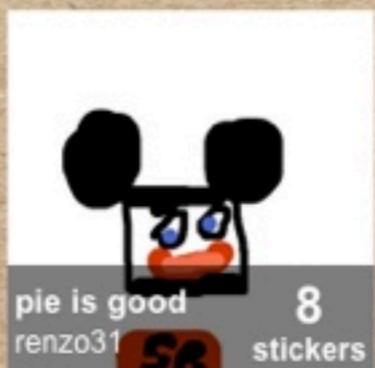




EVERYBODY



Our Favorite New Stuff



More epic stuff:



Fun new videos



Unpoppable Balloon

Find People:



[Top Players](#)



[All Players](#)



All



[Outdoors](#)



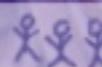
[Fashion](#)



[Sports](#)



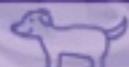
[Games](#)



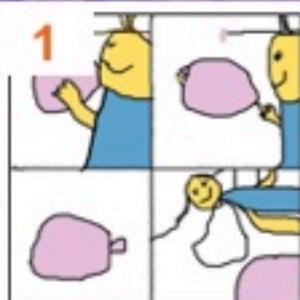
[Friendly](#)



[Food](#)



[Animals](#)



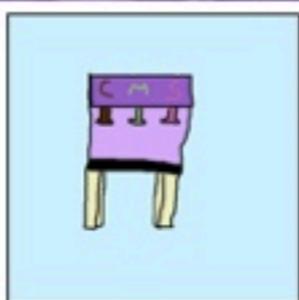
bamer790



Creative Champ



dipendotz



Creative Champ



que_bella



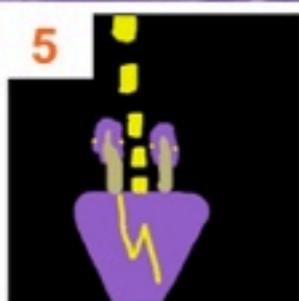
Creative Champ



pieabc123



Squad Star



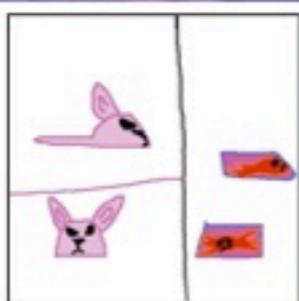
shopgirl46



Phenom



krikri



Phenom

Explore



How ice cream is made



4-Wheel Balloon Car

Join



TEAM CHALLENGES

Our latest challenge

STICKER STORE

Make cool stuff → Get Points → Collect Stickers!

thismelis



16 points to spend

what are points ?

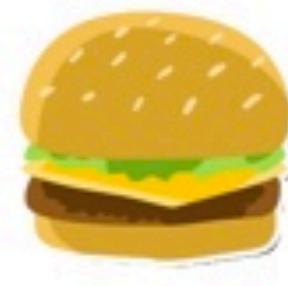
25 Points

50 Points

75 Points

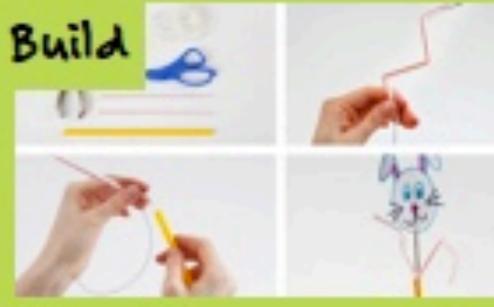
100 Points

500 Points



More epic stuff:

Build



String Puppet

Watch



Building a Cat Feeder

Share



Your design ideas

Join

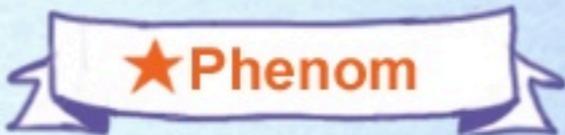


TEAM CHALLENGES

koolgirl013



Rank:



Log in to become a fan

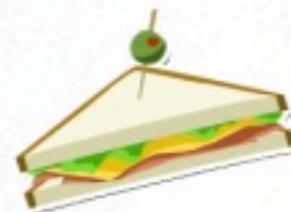
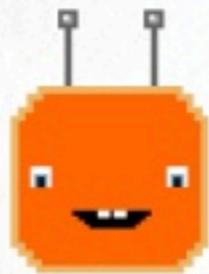
331
points to spend

★ Sticker Store

what are points ?

Keep making
AWESOME
stuff!!!

Sweet! I've collected 21 stickers:



More epic stuff:

Watch



Better Lunchbox

Build



Build a Better Lunchbox

Watch



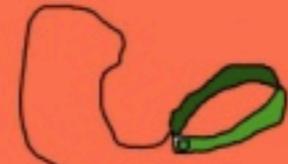
Make a Better Lunch

Watch





Mosquito rep ... 0 stickers



micro chip d ... 0 stickers



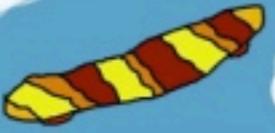
ROCKASOCK 0 stickers



Insulated me .. 1 stickers



Pet safe sno ... 0 stickers



Hover Board 0 stickers



Sport exoske .. 1 stickers



TARDIS 0 stickers



Electric Piz ... 1 stickers



Volunteering 1 stickers



food-scoot 11 stickers



Headphone ha 4 stickers



Shrit w/ bui ... 8 stickers

Please click on this



The never-en .. 0 stickers



Cupcake fidg .. 0 stickers



Gold topped ... 2 stickers



Typoputer 0 stickers



Lil' plushy 2 stickers



'fantastic' ... 0 stickers



Inflata-dres ... 3 stickers



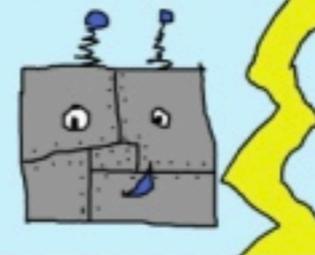
Green inflat ... 3 stickers



Red inflata- ... 1 stickers

a machine that will type what you say.

1 stickers



'Lectro fidg ... 6 stickers



Smartbowl 5 stickers



Pizza Neckla .. 1 stickers



water proof ... 2 stickers



flying house 0 stickers



talk-a-ball 3 stickers



Spotty Umbre . 2 stickers



Vidigamebox 0 stickers



Jet pack 0 stickers



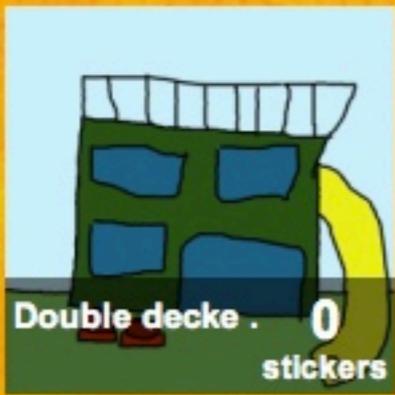
Super blast ... 0 stickers



super cycle 1 stickers



protection s ... 1 stickers



Double decke . 0 stickers



Fruit lamp 4 stickers



mini speed s .. 1 stickers



Cancer remov . 11 stickers



Rock star! 1 stickers



unfold-a-ten ... 6 stickers



speed system . 1 stickers



mesh top ten .. 1 stickers



plant care b ... 0 stickers



programible ... 0 stickers



solar merry ... 0 stickers



swing with a ... 5 stickers



wind up squi .. 0 stickers



reminder sui .. 2 stickers



umbrella cha .. 1 stickers

Click for More

AWESOME
Things To Do
Just For You
MACHINE

Your Rank:

★ Newbie

Wild new inventions

Ask



Send us your questions



Watch a Video

Watch Nate design a cat feeder, Deysi build giant inflatable monsters, and more!

Go!



Share Your Ideas

Think of something you'd want to build. Then share your idea!

Go!



Make a Sketch

Find an idea you like, then make a sketch of it!

Go!

My Stuff

My Fans

Favorite Stuff

Favorite People

Level Up: Pathways through the content

BUILD

Make something AWESOME!

Check out this project →



Rubber Band Car

More epic stuff:

Build



Take the Challenge

Share



Add onto designs!

Build



String Puppet

Share



Your design ideas

Find



Wild new inventions



Robo Wheel

Rev up this monster wheel to race it, or do freestyle tricks with



Marshmallow Blaster

Blast a marshmallow across the room!



Rubber Band Car

Make a fast, two-wheeled car powered by a rubber band.

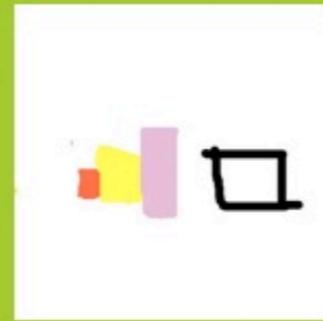
<http://pbskids.org/designsquad/build/>

BUILD

Marshmallow Blaster



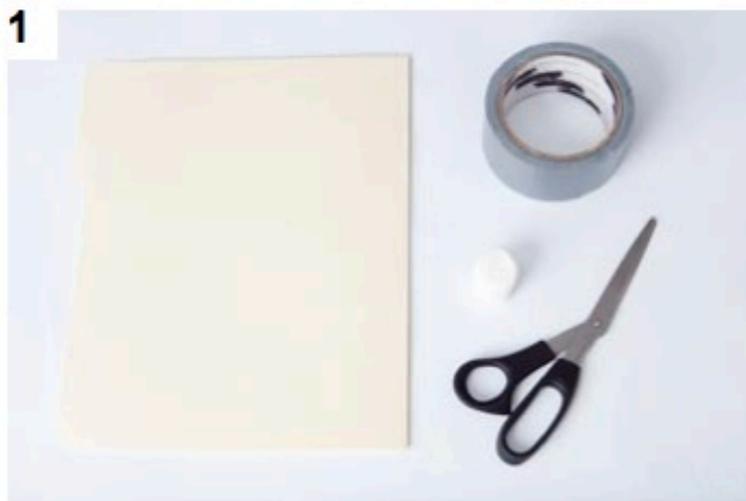
New Designs



Earn 10 points!

[Add Your Design](#)

Instructions



Here's what you need to make your Marshmallow Blaster:

- o 1 manila file folder (or thick paper, such as cardstock)
- o 1 fresh large marshmallow
- o Tape
- o Scissors (optional)

2

Cut the tape ahead of time

More epic stuff:



Take the Challenge



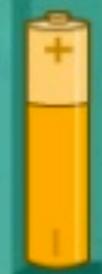
Add onto designs



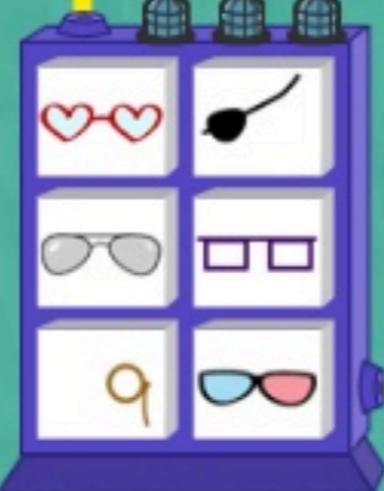
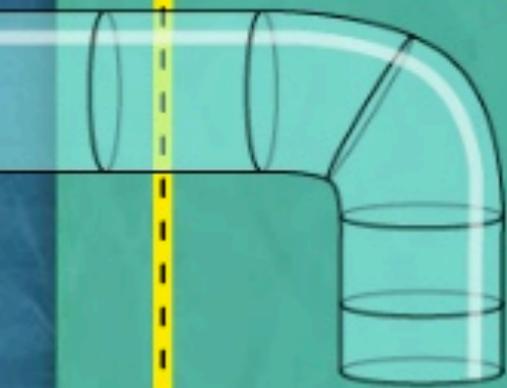
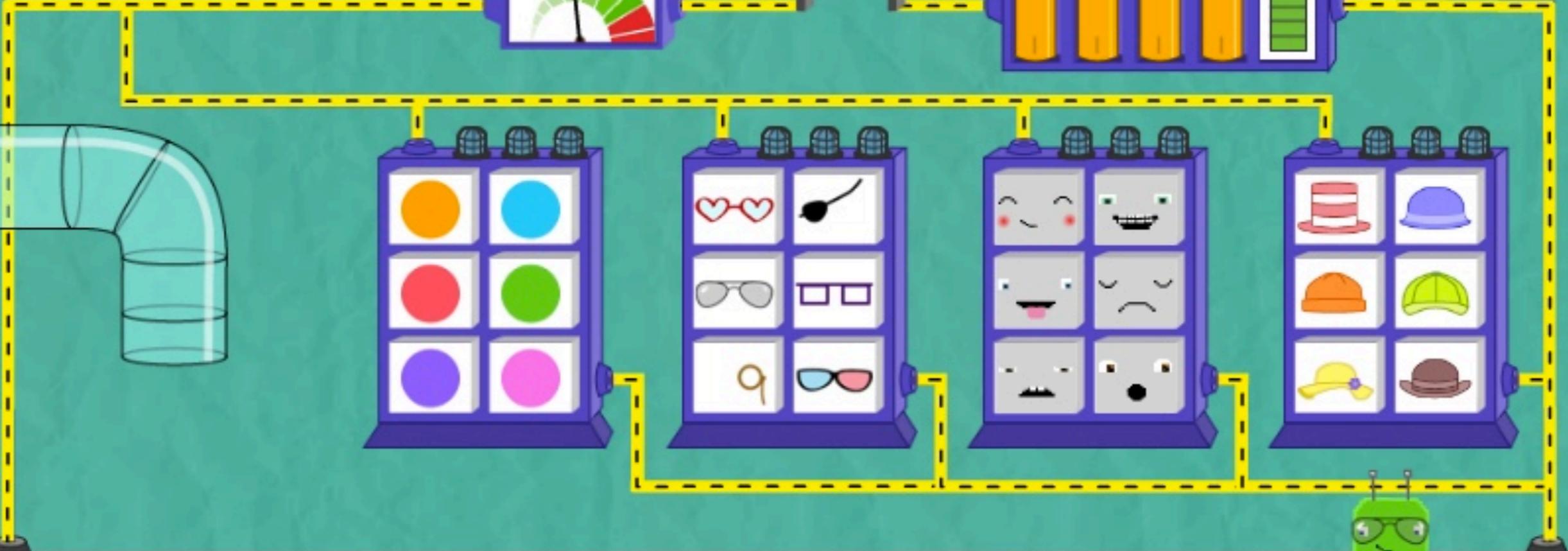


http://pbskids.org/designsquad/games/fidgit_factory/

← Menu



4 left



🤖 4 needed

0 points

Level 4 Round 1







1. identify the problem

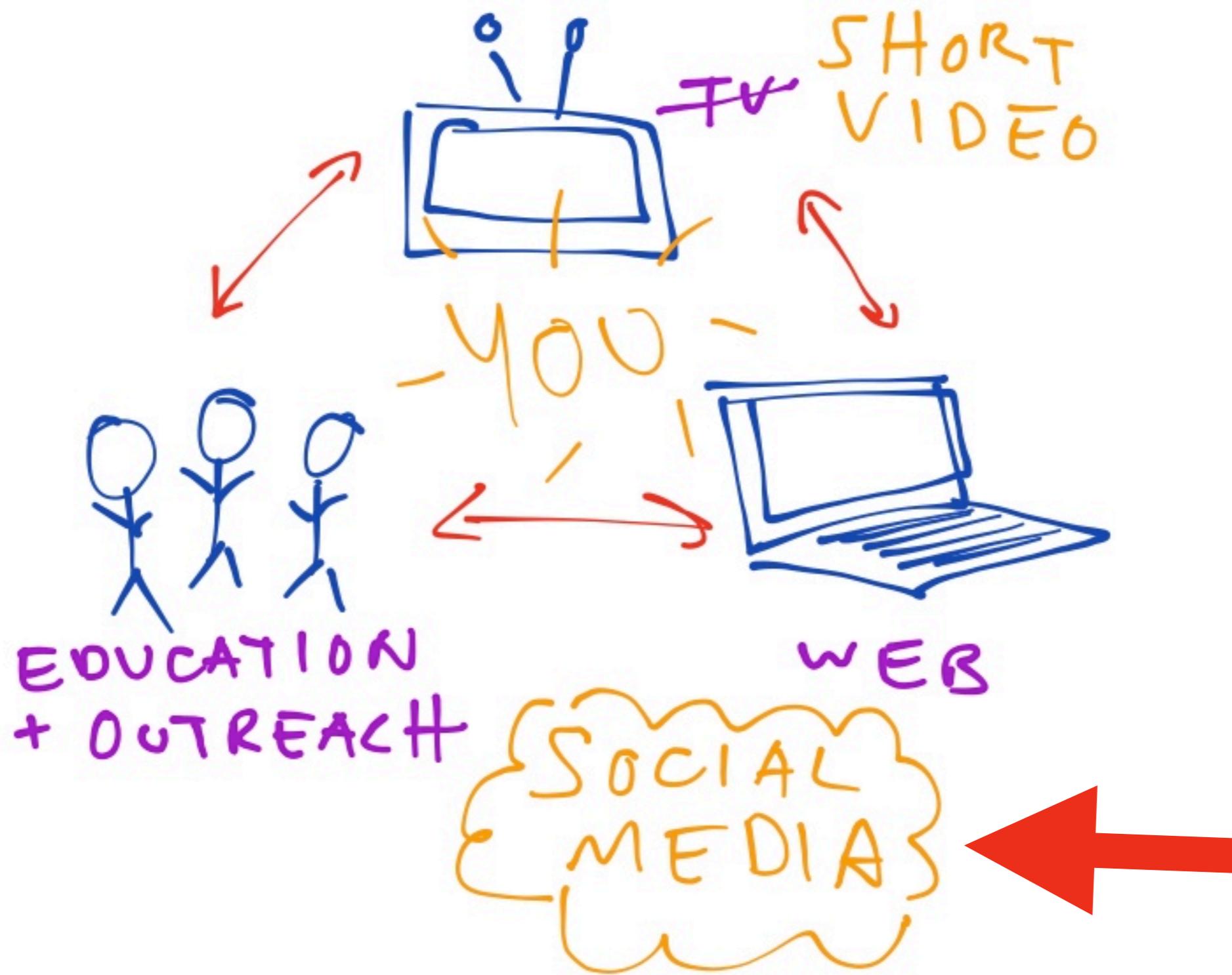
2. brainstorm

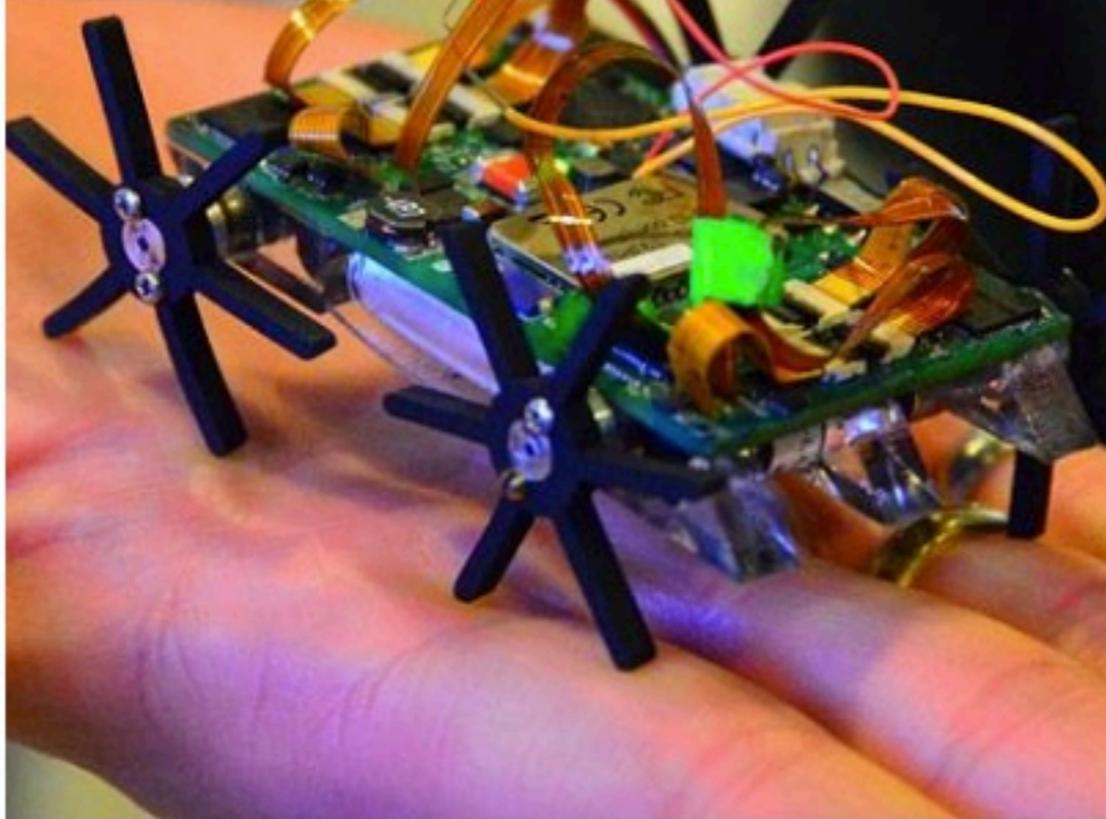
3. design

4. build, test, redesign

5. share







Like · Comment · Share

1

Arjun Prasath, Kris Odahowski, Serafin Blis and 4 others like this.



Like · Comment · Share

Mark Tribue likes this.

Quentin Israelsen MAKE A SEASON 4
June 18 at 7:44am

Design Squad
June 17

It's a fight to the finish! Blast armed balloons across the room and compete to be the last balloon standing. On your mark, get set, joust! <http://ow.ly/m2VBK>



Design Squad shared a link.
June 17

This Design Squad Nation animation shows how the frequency at which a string vibrates—its pitch—is affected by its length, tension, and gauge. <http://youtu.be/6A3brp3vYAO>



DSN Animations: How do Musical Strings Work?

This Design Squad Nation animation shows how the frequency at which a string vibrates—its pitch—is affected by its length, tension, and gauge. For

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Design Squad Nation

@DesignSquad

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2,441
TWEETS

967
FOLLOWING

1,307
FOLLOWERS

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Tweets



Design Squad Nation @DesignSquad

23m

Join the team! There's still time to join our super sporty Team Challenge! Learn more: ow.ly/mczLn #STEM

Expand



Design Squad Nation @DesignSquad

5h

Why do boats float? See how you can use Archimedes' principle to explain why boats float! ow.ly/mczxV #STEM

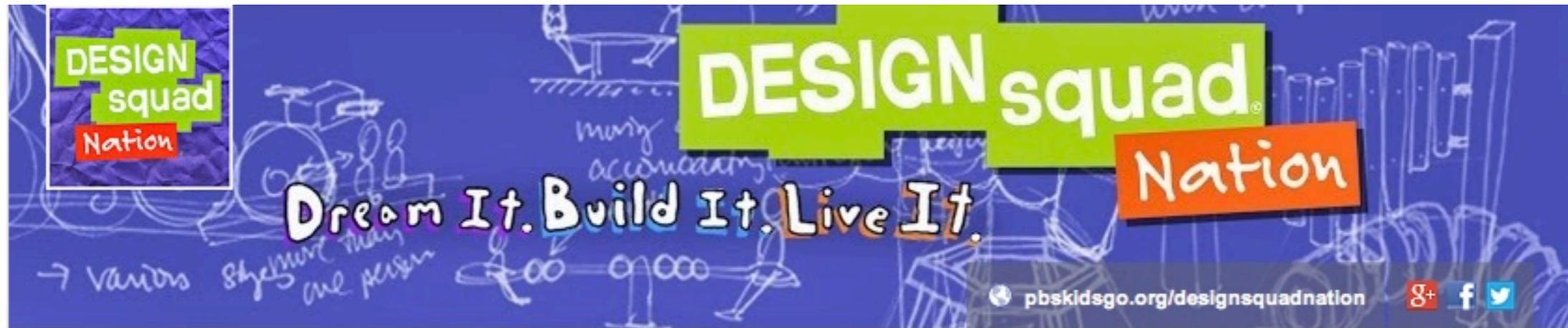
Expand



Design Squad Nation @DesignSquad

18h

<http://www.youtube.com/user/DesignSquadNation>



Design Squad Nation

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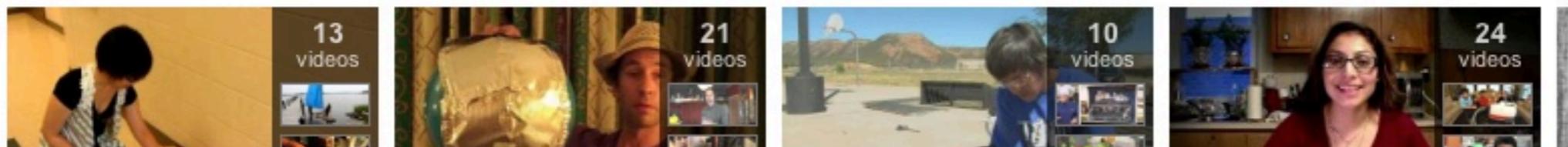
Tour Design Squad's New Website: Q&A with Nate

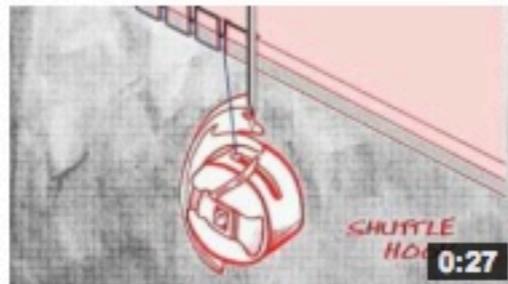
342 views 9 months ago

Do you like sports, fashion or music? Or just being creative? Learn more about our fun projects, video and games and join Design Squad today!

For more Design Squad Nation, go to <http://pbskids.org/designsquad>

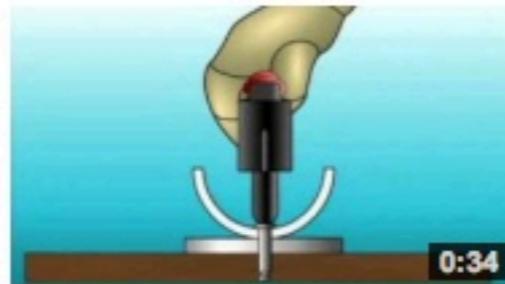
Playlists





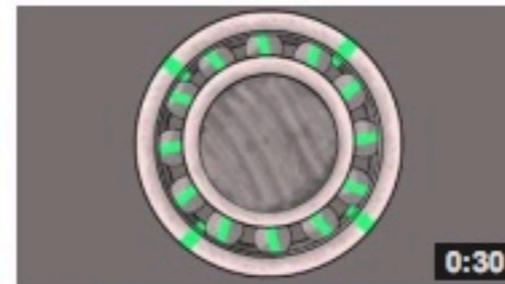
DSN Animation: What is Sewing?

95,093 views | 2 years ago



DSN Animations: What is a Pop Rivet?

90,276 views | 2 years ago



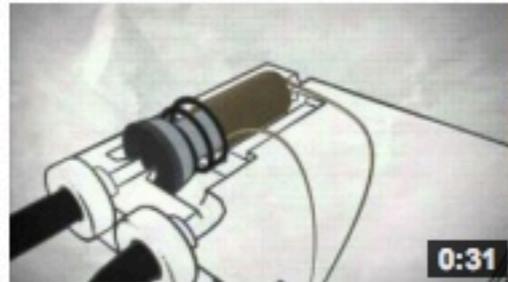
DSN Animation: How do ball bearings work?

83,549 views | 2 years ago



DSN: How to build your own skateboard

65,828 views | 2 years ago



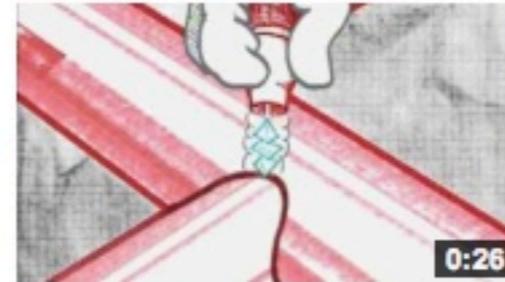
DSN Animation: What is a Solenoid Valve?

51,103 views | 2 years ago



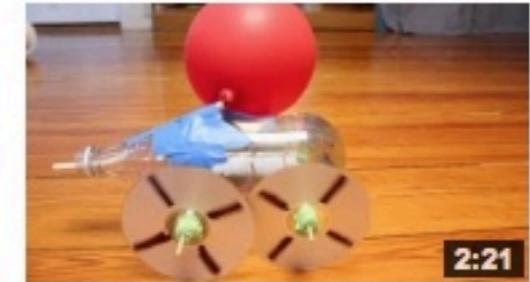
DSN: Learning how to weld

37,871 views | 2 years ago



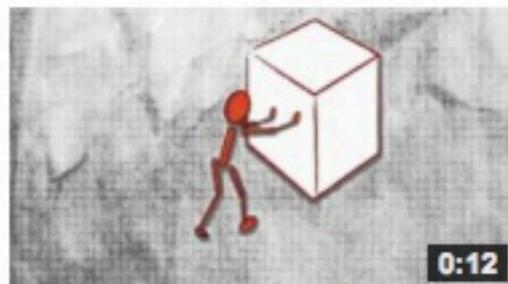
DSN Animations: What Is Tig Welding?

36,367 views | 2 years ago



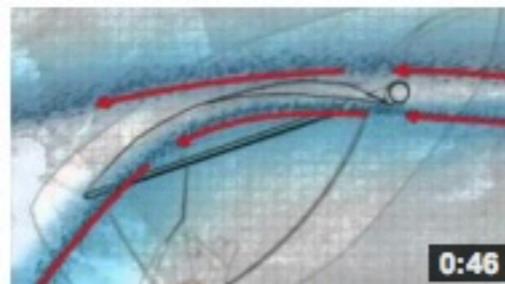
4-Wheel Ballon Car | Design Squad

25,637 views | 9 months ago



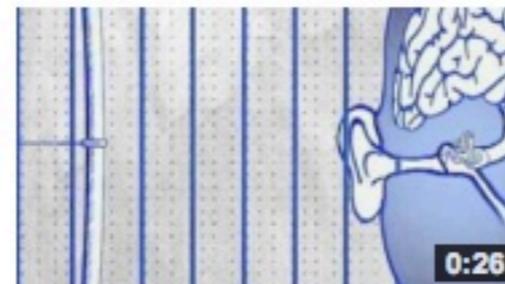
DSN Animation: What is Torque?

22,132 views | 2 years ago



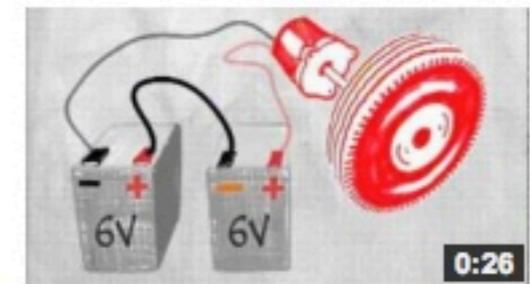
DSN Animations: How do Sails Work?

16,328 views | 2 years ago



DSN Animation: What Is Sound?

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DSN Animation: How Wiring Batteries in Series Works

13,454 views | 2 years ago

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Design Squad

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4 Boards

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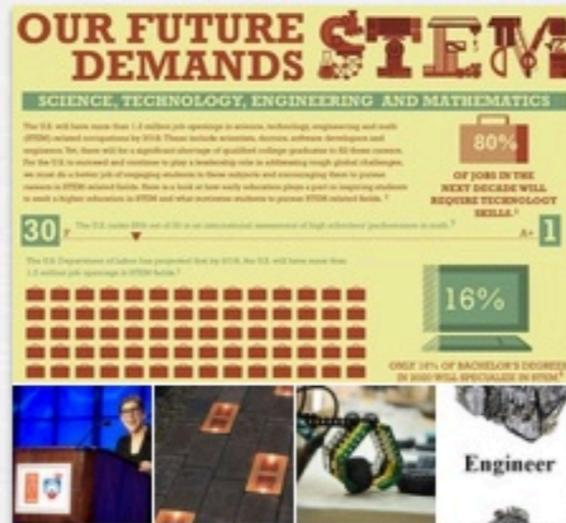
DIY

17 pins



STEM

6 pins



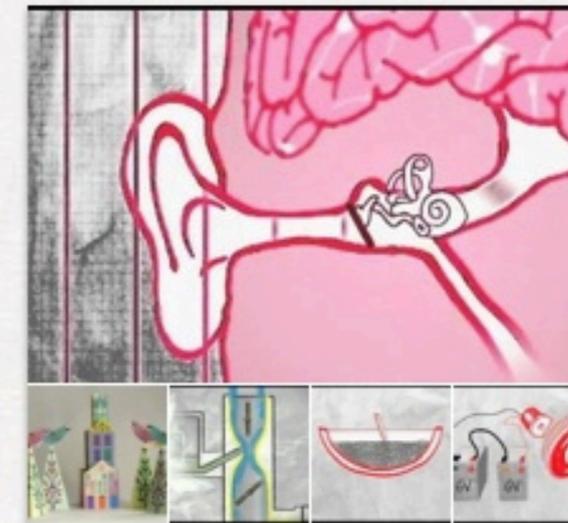
STEM Projects from Girl ...

89 pins · 📌



How Things Work!

24 pins · 📌



<http://pinterest.com/designsquad>



Weekly Social Media Toolkit

IMAGE SHARE [click here](#) or <http://ow.ly/m7cGo>

Facebook [click here](#) or <http://ow.ly/m7cGo>

Twitter [click here](#) or <https://twitter.com/DesignSquad/status/346590992473915392>

Pinterest [click here](#) or <http://pinterest.com/pin/251005379204594193/>

FACEBOOK:

***Keep a frozen treat from melting when you're on the go with this [\[tag fan page @Design Squad\]](#) DIY project! Turn your everyday lunchbox into one that can stay cool on a hot summer day. <http://ow.ly/IT4G1>
(include attached image: betterlunchbox)

***How do Musical Strings Work? This [\[tag fan page @Design Squad\]](#) animation shows how the frequency at which a string vibrates—its pitch—is affected by its length, tension, and gauge. <http://youtu.be/6A3brp3vYAo>
(include attached image: musical strings)

***It's sink or swim time! In this [\[tag fan page @Design Squad\]](#) episode, a master kayak builder challenges teams to create their own lightweight ten-foot-long kayaks made of non-traditional materials! <http://ow.ly/m7dAn> **(include attached image: kayak)**

TWITTER:

***Keep a frozen treat from melting w/ this @DesignSquad DIY! Turn your lunchbox into one that can stay cool this summer <http://ow.ly/IT4G1>

***How do Musical Strings Work? Watch this @DesignSquad animation to find out: <http://ow.ly/m2WCo> #STEM

***It's sink or swim time! In this @DesignSquad episode, teams build lightweight boats made of non-traditional materials <http://ow.ly/m7dAn>

A few questions sent in by kids through the website...

aria12309908: how does a car work.

djjp75: Is there any way you can make a person fly on earth

winx104: I have a lot of stamps and I don't have a place to keep them.Can you give some ways to repurpose everyday objects to hold stamps or other things?

anonymous!@: do you think time travel will ever be invented

anonymous!@: whats in a comperter

anonymous!@: how does a car work

high333: How do T.Vs work.

anonymous!@: how do you make a airplane have a aircraft carier

beanka40: how does a microwave work and what is the things i should use to make my own ice cream ?

JUSTFORFUN: How to make a plane?

ddad206: how does a meddle detecture work?

pare23456383: how do you make stickers?

anonymous!@: how do you make a paper airplane have a paper aircraft career.

anonymous!@: How can you make a scooter.

nathaly904: My mom and I have always wondered how do air planes really fly .How do they really fly?

mmmm669: how is a pen made

dophin235: how do doorbells work?

nasa1212624: how do robots work?

anonymous!@: how does a blender work?

dalmatian: how does a clock work? and can I make one my self?

laia40: how do you keep a straw down in a glass

anonymous!@: Does air conditioning use water?

The Story of
CAPTAINUNDER651

CAPTINUNDER651



Rank:

★ Phenom

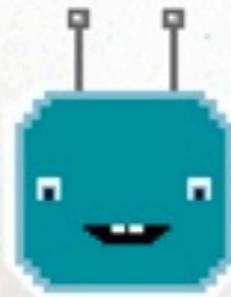
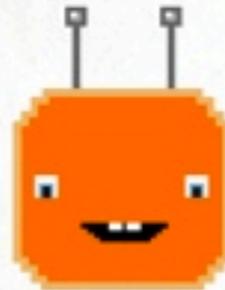
Log in to become a fan



what are points ?

Keep making
AWESOME
stuff!!!

Sweet! I've collected 71 stickers:

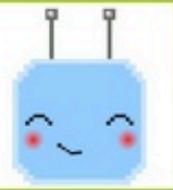


CAPTINUNDER651 has received the highest rank on the DSN website: Phenom. He became an active member in August of 2012. He has earned almost 4000 points for contributing to the community, and has used those points to purchase 71 stickers from the Sticker Store. He has contributed 41 project ideas and 113 designs. He has used these stickers 443 times on his favorite ideas and designs, and has received 411 stickers from other players.

friendly

NateDS says...

TEAM CHALLENGE



Design a backpack that does something extra.

111 stickers

[Login to add your own ideas to this project!](#)

VICTORY!

TEAM

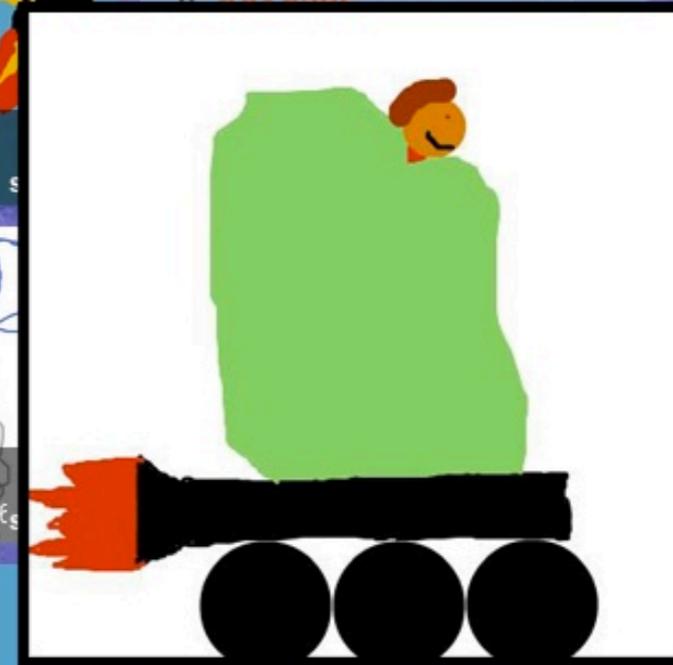
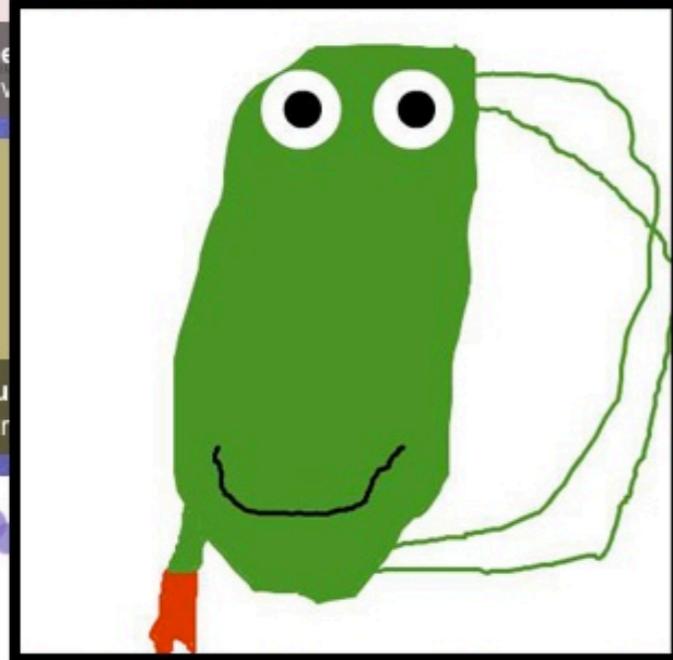
0 More Players needed to complete the challenge

1. aks500
2. New Inventor
3. maarshaal3
4. prayman
5. dmsterrett
6. isjj
7. Mack2005
8. ...



Newest

Popular



neckles xl
New Inventor 2 stickers

b d b
beanbella6 1 stickers

the terbo J ...
beanbella6 0 stickers

cool backpac ...
beanbella6 1 stickers

The Super Sc ...
meeeeeeeep201 2 stickers

e Super Sc ...
girl782 1 stickers

backpack.
watermelonsa 1 stickers

Springpack
CAPTINUNDER651

21. SkylerLan
22. luveepup
23. s8atergirl
24. Mangopongo

CAPTINUNDER651 has participated in 10 team challenges.

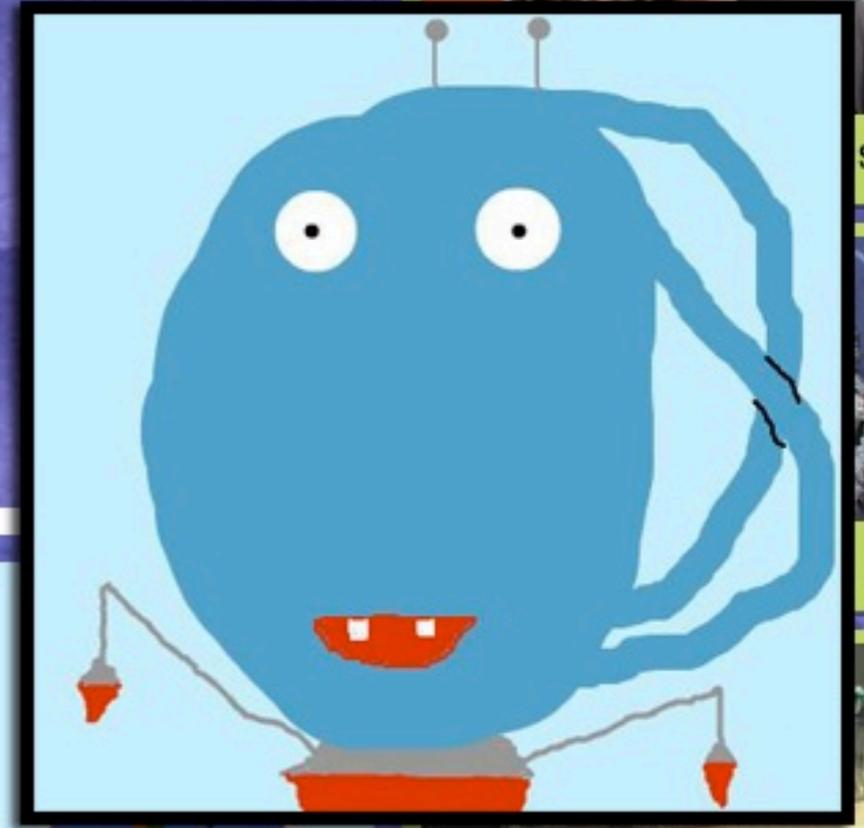
He submitted 6 sketches to the Team Challenge "Design a backpack that does something extra."

friendly



A new type of backpack.

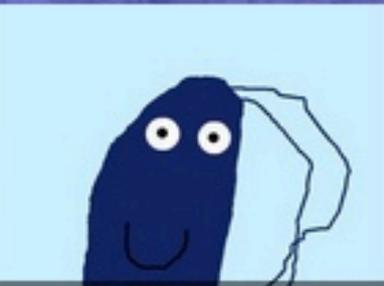
own ideas to this project!



New

Propele

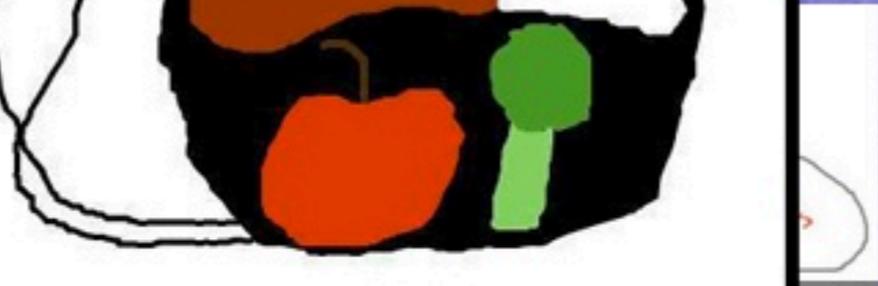
CAPTINUNDER651 stickers



Talking Jetp ... 1
CAPTINUNDER651 stickers



The rainbow ... 1
jain12345 stickers



stickers naniozo stickers

Talking Jetp ... 1
CAPTINUNDER651 stickers



Super Mega P 8
CAPTINUNDER651 stickers

Wild new inventions



Our favorite new stuff

After the team challenge closed, he created his own project idea titled "A new type of backpack," and submitted 12 more sketches.

CAPTINUNDER651 also added a sketch called "Telapack" to an idea "a backpack that you can call your friends on" by user isjj

wished by
[CAPTINUNDER651:](#)

Explore



wished by
[CAPTINUNDER651:](#)

Explore



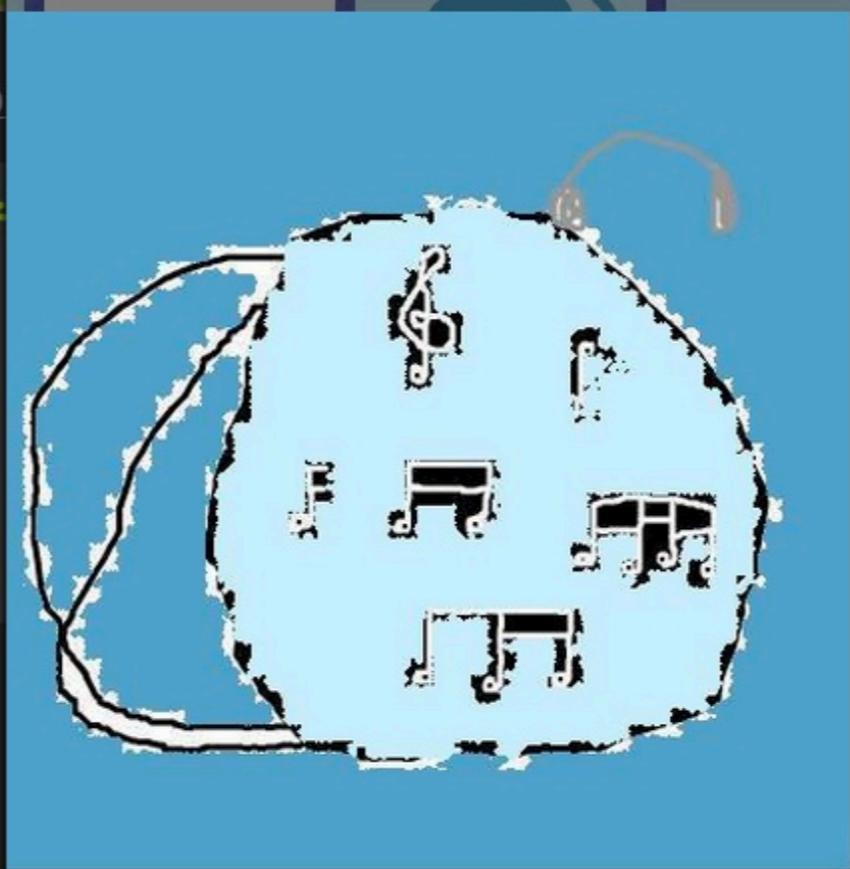
A new type of backpack.

A new type of backpack.



created by
[CAPTINUND](#)

Musicpack



created by
[pieabc123 :](#)

head music!
headphones make this magical
music from your pack!

Made from this design:



"Musicpack"
[CAPTINUNDER651](#)

[Log In and Sketch](#) ↑

↓ 5 stickers Give a sticker!

[Log In and Sketch](#) ↑

↓ 5 stickers Give a sticker!

One of CAPTINUNDER651's sketches, the "Musicpack," was re-sketched by another player: pieabc123, who used the Sketch on Sketch feature to add headphones to CAPTINUNDER651's original design.

Another player, funbox101, also added to the "Musicpack," making it a boombox.

CAPTINUNDER651 showed his appreciation by giving funbox101's design a sticker.



created by

CAPTINUNDER651 :

A catapult

You pull back on the catapult, making potential energy, and then when you let go it turns into kinetic energy, and the catapult has wheels to roll it around.

CAPTINUNDER651 has sent in 3 photos to Design Squad of prototypes he has built, including this catapult.



CAPTINUNDER651 has also beat levels 1-4 of the new Fidgit Factory game and received bonus stickers for all 4 of those levels for getting up to a higher score.

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dave@symbolicstudio.com