



Presented by

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&

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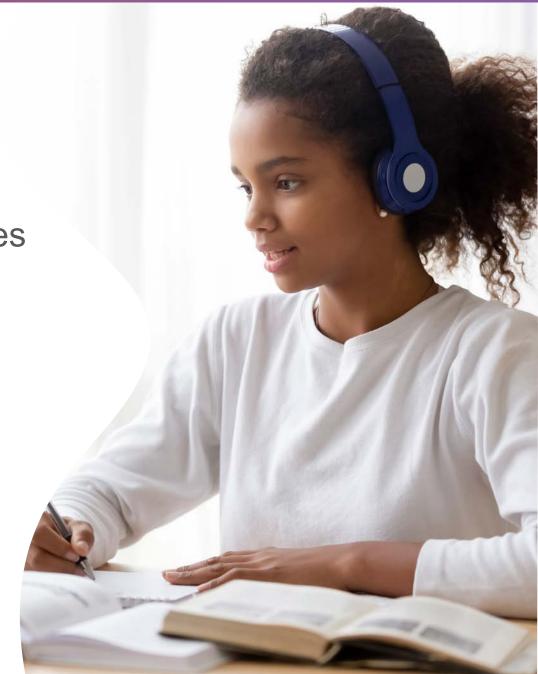






Corporate Education Partnerships

- ✓ Diverse content portfolio, including resources for STEM, SEL, Workforce Readiness, Substance Misuse Prevention & more
- ✓ Digital resources Virtual Field Trips, Interactive Modules, Classroom Activities, Video & more
- ✓ Programs developed in partnership with diverse corporate and community partners





























































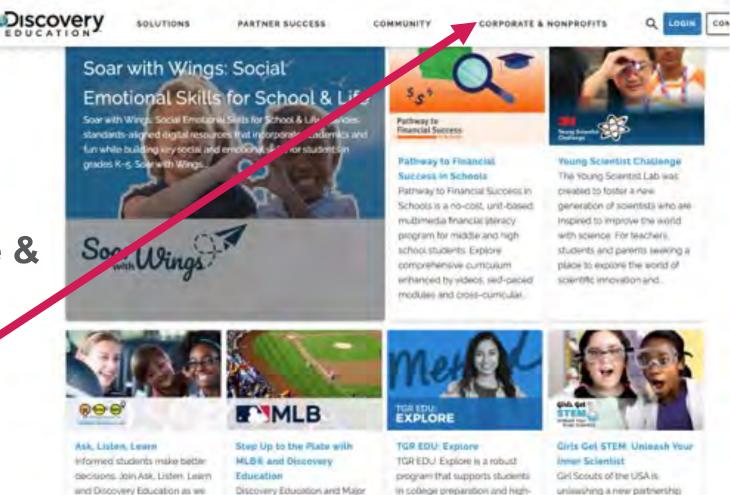




Where to find the programs

1. Corporate & Nonprofits Section

2. Corporate Education Partnerships



quality STEM career paths.

Available at no cost, the

with Discovery Education to

spark garls' interest in STEM and

League Basebaltiff are fearning

up to energize classrooms with

uncover the science berind how

alcohol affects developing

Where to find the programs

EXPERIENCE







STEM-Based Learning Resources

HANDS-ON STEM EXPLORATION

HEALTH & WELLNESS

TECHNOLOGY & ENGINEERING

FINANCIAL LITERACY

COLLEGE & CAREER READINESS



SCIENCE FAIR CENTRAL



VISIT THE MAKER CORNER FOR NEW STEAM-POWERE



PROJECT IDEAS

Search through hundreds of idea starters to develop your own investigation or engineering design challenge.

Scientific Ideas >

Engineering Ideas >



PROJECT STEPS

Organize your investigation or engineering design challenging usin our guides.

Scientific Steps >

Engineering Steps >



Grades 6-8 | 45-60 Minutes

Students will design, build, test, and refine a device that will allow them to fish trash out of local waterways while standing on the shoreline.



Download Activity

Scientific Tips >

Engineering Tips >



Designed for Delivery

Grades 6-8 | 45-60 Minutes

Students will take on the role of a packaging designer and be tasked with creating a package design for a box left outside after delivery that needs to remain cold and dry.



Download Activity



Armadillo Architecture

Grades 6-8 | 45-60 minutes

Students will learn about the efficient and lightweight shell of an armadillo. They will then apply these advantageous adaptations to their own architectural model using a variety of different materials.



Download Activity



SCIENCE FAIR CENTRAL



will design and build a beverage cup insulator with the goal of keeping a hot drink the warmest. They will also experiment with the fastest way to cool a beverage, using a thermometer and trying a variety of cooling techniques. After analyzing their results, students will share their findings in a one-minute public service announcement.

Have you ever wondered . . .

Why liquids have to eventually cool down?

There are three main reasons why any liquid, in a regular cup, will eventually move towards room temperature. Even a boiling cup of water and a block of ice will eventually reach the same temperature, thanks to heat transfer. (Heat transfer is the process by which heat, a form of energy, flows from a body of high temperature to a body of low temperature).1 Using a cup of hot chocolate as our model, let's think about how this drink would cool down naturally:

Discovery

www.ScienceFairCentr

What can you do to keep your drink at the pe

Materials

One per student group:

Thermometer

For the class to share:

- Paper cups
- Aluminum Foil
- **Bubble Wrap**
- (4) Cardboard
- (2) Foam
- Plastic Wrap
- All Purpose Glue
- Super Glue Rubber Bands
- Scissors
- Clear Packaging Tape
- Duct Tape

Put the following materials to the side, as they are specifically for Part 2:

- · Ice
- Paint Bucket, one per student group

1. Conduction: This kind physical contact. When begin to move quickly.

and with the side of the

- with the side of the cup cooler cup and the liqui from hot to cold and no
- 2. Convection: Heat also currents. Hot air (and he liquid) sinks. When you the air just on top of the heat transfer from the happening because you transferring from the lie the drink!
- 3. Radiation: Radiation tr feel, but can't see. Pictu which travels to Earth in then deposit heat into Radiation heat transfer objects like burning me also account for a little

What can you do to keep temperature no matter t

There are certain materials that they stop and/or slow

Even a boiling cup of water and will eventually reach the same t

Blueprint for Discovery

Prior to the Class Arriving:

- On a white board or a large piece of paper there are markers available so several stu Photocopy the Hot! Brainstorm + Data Sh
- Display the insulator materials in an area the cooling materials separate.

During Class:

- 1. As students enter, invite them to answer the quick sketch.
- 2. Think/Pair/Share: Why do all of these hot dri
- 3. Share this Doodle Science video. (You may presenter speaks quickly!). Ask: Which of your id

Part 1:

- 1. Explain that students will be having a frien best hot beverage insulator for a paper cup. To o Each group will have 45 minutes to complete the available to create three different trial insulators
- 2. Pass out one Brainstorm + Data sheet to ea introduce the available materials, and clarify any
- 3. Provide students with updates indicating ho brainstorm, design, and building process. After a building phase if they haven't already.
- 4. Once 45 minutes is up, direct student group:
- 5. Fill the student's cups with hot water. (If an use that, or hot water from the sink will work as water's starting temperature on their data sheet

Hot! Hot! Hot! Brainstorm & Data Sheet

Directions: In the grid below, brainstorm the materials and design of your insulators as well as a brief description of why you think each insulator will be effective. There are 4 brainstorming slots in case you would like to brainstorm an extra idea and then narrow them down to three.

Materials Needed:	Sketch of the design:	Why do you think this design may work?	Temperature Trials	
ldea #1			0 minutes	٥F
			10 minutes	٩F
			20 minutes	٥F
			30 minutes	٥F
			minutes	۰F
6	7 - 4	<u> </u>	Total change	°F
ldea #2			0 minutes	°F
			10 minutes	°F
			20 minutes	°F
			30 minutes	۰F
			minutes	۰F
			Total change	°F
Idea #3	7		0 minutes	°F
	11		10 minutes	۰F
			20 minutes	۰F
			30 minutes	۰F
			minutes	oF.
	77		Total change	۰F
Idea #4		1/2-	0 minutes	۰F
			10 minutes	٩F
			20 minutes	°F
			30 minutes	٥F
			minutes	۰F
	7.7		Total change	oF.



Discovery

SIEMENS STEM DAY





Elementary K-5
Spark student interest in STEM with classroom activities. >



Middle School 6-8

Extend and deepen interest in STEM with classroom activities. >



High School 9-12

Apply STEM to everyday life with classroom activities. >





SIEMENS STEM DAY

This is your destination for quality, standards-aligned content that is both easy to implement and applicable to students of all backgrounds and abilities – plus, it's all FREE!



Train the Trainer Video

See how easy it is to put the Siemens STEM Day resources to work with students in your community. This new training video will show you how to find the activities and resources, present ideas on how to implement them with students, and demonstrate the value of opening students' minds to the possibilities of STEM. You'll hear from a coordinator at the Georgia Youth Science and Technology Center about how she has been able to utilize the Siemens STEM Day activities with

Lead a STEM Day Training Guide

Whether you are leading STEM classroom activities, coordinating after-school learning sessions, or incorporating STEM learning at home, this guide provides you with everything you need to engage students in learning about the world around them through the exploration STEM concepts.



Train the Trainer Guide

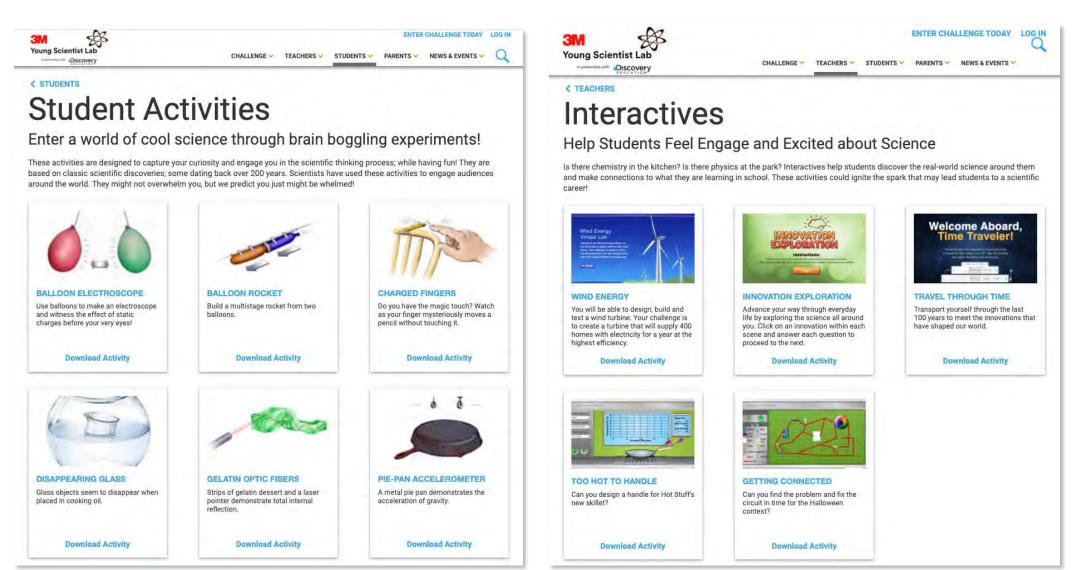
No need for fancy STEM equipment here! Siemens STEM Day was purposefully designed to use materials commonly found in the classroom or at home, while still providing a hands-on, engaging learning experience for students. Use this guide for more information on how to use the Siemens STEM Day resources, including how to effectively incorporate technology, how to manage your time, and how to find the right resource for you.

- · Looking for ideas on how to organize multiple activities into a series?
- · Not sure how to insert personal or real-life connections to the concept?
- How about understanding what it's like to lead kids through a learning experience?

Download the training guide now to answer these questions and more!



3M YOUNG SCIENTIST LAB & 3M SCIENCE AT HOME





3M YOUNG SCIENTIST LAB & 3M SCIENCE AT HOME

Science Experiments for Kids at Home

Watch more science experiments designed, and tailored, for kids at home using commonly available items from around your place of living. Each experiment includes information on how to include them in your distance learning curriculum.



Soap Boat

Join 3M Researcher Vasav Shani as he introduces you to the science of surface tension. Not only is it only important for many engineering and earth science processes, it also makes blowing bubbles



Chromatography

Did you know your red marker has more than just red ink inside of it? 3M's SVP for Research & Development and Chief Technology Officer, John Banovetz shows a simple way to separate the materials in your marker using capillary action.



Feeling Sound

Believe it or not, you can feel sound! Join Gitanjali Rao, former Discovery Education 3M Young Scientist Challenge winner, as she teaches about the frequency of sound and how we perceive pitch.



Bernoulli Balance

A jetliner can weigh or doesn't it just drop ou SVP of Corporate Affa Rutherford explains the and how without it, pla couldn't fly.



Diffusion with Miss America 2020

Ever wonder why things mix (or don't mix) differently in different temperatures of water? Join Camille Schrier, a scientist who was crowned Miss America 2020, as she explains diffusion and how substances move though water.



Push & Pull

Follow along with 3M's Sam Reiss, as he shows you that magnetism is more than just a simple push and pull - it's an example of the power of the earth itself.



Liquid Fireworks

Join 3M scientist Jeff Payne as he uses nothing more than milk, dish soap, and a few other kitchen supplies to get the amazing effects of fireworks without using any fire at all.



Inflation Station

Follow along with 3M Advocate, Javshree Se students how chemistr air where it's most nee



Bring Science Home!

Simple, at-home **STEM experiments**













DISCOVER DATA

STUDENT INTERACTIVE



STUDENT INTERACTIVE | DATA IN MY DAY

10-15 min.

In this self-paced eLearning module, students travel through a typical day to investigate everyday occurrences and discover where and how data and data science play a part. Students will explore the many ways data can be used along with various data-driven careers.







BIG DATA IN THE BIG GAME

Grade: 6-12

Subject(s): ELA, Math, Science, Afterschool Enrichment

Do you prefer to watch the game, the commercials or the halftime show? In these activities, students will investigate consumer data bytes surrounding championship football—such as the fans, the entertainment, and the food.



WOMEN & GENDER EQUITY AT 100

Grade: 6-12

Subject(s): ELA, Math, Science, After school enrichment

Students will assess the extent of the progress in 2020 by analyzing data through women's changing role in entertainment, professional sports, and leadership.



USING THE CENSUS FOR A U.S. SNAPSHOT

Grade: 6-12

Subject(s): ELA, Math, Science, After school enrichment

Students will use archived Census data to explore changes in U.S. population density, diversity, and voting participation.



UNDERSTANDING THE ELECTION CYCLE

Grade: 6-12

Subject(s) : ELA, Math, Science, After

school enrichment

Students will investigate voting participation rates in elections, the impact of advanced data on campaign advertisements, and the evolving impact of media consumption and election information.





DISCOVER DATA

EDUCATOR WEBINAR

Looking for ways to make data more interesting for your students? Whether this is your first step in exploring data science or you are a seasoned expert looking for new strategies, the DISCOVER DATA educator webinar will have something for everyone.



This webinar is broken out into two thematic parts:

- · How to make data in everyday life come alive for your students
- Strategies for engaging students with the multi-media resources available from the DISCOVER DATA initiative



WANT MORE? SCHEDULE A VIRTUAL VISIT FROM A REAL-WORLD DATA EXPERT



GIRLS GET STEM

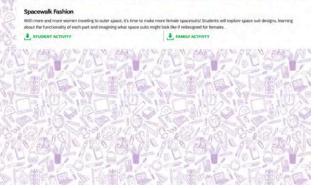


Virtual Field Trip Educator Resources About











GIRLS GET STEM

Virtual Field Trip

Join us as we experience a brand-new kind of camp - it's not just swimming, sun, and s'mores - but STEM! Tune in to transport students to the STEM Center of Excellence where STEM will come to life in new and unexpected ways.



STEM-Based Learning Resources

HANDS-ON STEM EXPLORATION

HEALTH & WELLNESS

TECHNOLOGY & ENGINEERING FINANCIAL LITERACY

COLLEGE & CAREER READINESS





DISCOVER YOUR HAPPY (SEL)



Educators

Turn-key, standards-aligned materials provide engaging, hands-on activities that help students to identify actionable ways to bring happiness to their communities.



NEW VIDEO: See how happiness can lead to student success

CHOOSE A FILTER

CLASSROOM ACTIVITY

DIGITAL LESSON BUNDLE

FAMILY ACTIVITY

INFOGRAPHIC

PROFESSIONAL DEVELOPMENT

VIDEO

VIRTUAL FIELD TRIP



DISCOVER YOUR HAPPY (SEL)



This is Your Brain on **Happiness**

Grades 7-12 4 min. duration

Happiness is an essential aspect of what it means to be human. Explore the science behind happiness and how happiness can affect our sympathetic and parasympathetic nervous systems.



This Is Your Brain on Happiness

Grades 7-12 45 min. duration

Students participate in a jigsaw activity to research how happiness changes the brain and how they can take control of those positive changes.







changes. Students work in a with their classmates. Stude brains for happiness.

45-minute session Overview

Resources

Time

. How to Trick Your Bri

After viewing the This is You

to research how happiness of

LG Experience Happ

Student Activity #

his is Yo

- How Gratitude Chan
- What Happens in a C
- How Happy Brains R How to Grow the Go
- How to Hack Your B

Objectives

Students will

- · Collaborate with pee Explain connections
- Select strategies to

Materials

- Video: This is Your Bri
- Poster paper
- Markers
- Computer access
- Article: How to Trick
- Video segments
 - Understandi
 - How to Char

 - How to Take

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Family Activity

30-45 minutes



Student Activity | Be Thankful Happiness Skill: Gratitude

LG Experience

Student Activity | Agree to Disagree

Happiness Skill: Human Connection

Two 30-45-minute sessions

In this activity, students explore how to disagree respectfully. After reflecting on the last time they took part in an unproductive argument, student pairs will read and annotate an article that provides suggestions for productive disagreements. Then, the class will participate in a simulation to apply what they have learned. Next, the teacher will lead a group discussion in which students consider how respectful disagreements build human connection and contribute to sustainable happiness. Finally, students will create a personal goal for conducting respectful disagreements in the future by focusing on a strategy to help them overcome destructive anger and explaining the brain science behind this choice.

Objectives

- Explore, explain, and apply principles that enable respectful disagreements
- Consider the correlation between human connection and sustainable happiness.
- Explain the brain science behind anger.
- Create an attainable goal for holding respectful disagreements and strengthening the skill of human connection

Materials

- · Scrap paper, one piece per student
- · Five Ways to Have Better Conversations Across Difference article, one per student
- · Tip Sheet, one per student
- · Scenario Cards (15 copies), cut out in advance
- . How to Overcome Destructive Anger article, one per student
- · Respectful Disagreements Goal Sheet, one per student

Standards

National Health Education Standards

- · Standard 4: Students will demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.
- · Standard 6: Students will demonstrate the ability to use goal-setting skills to enhance health.

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design a collage on their journal's their lives. Students will then hat they have experienced. nore detail, and describe how it meone on their list, and they are e with a review of how students nd gratitude, and how gratitude

explore the benefits of being

Discovery

and sustainable happiness.

share)

eers, culture, media, technology, and

erpersonal communication skills to



AHA NFL PLAY60 (PHYSICAL FITNESS)









Digital Exploration

LESSON PLANS



analyze statistics related to physical activity levels in the U.S. and track their own physical activity level.

Journey of The Blood

Students learn about the circulatory

activity on blood flow and heart rate.

system and the impact of physical

Science | 90 min.

ZIP



The Influence of Science & Tech in Sports & Physical Activity

Science/PhysEd/ELA | 90 min.

Students will design a measurement tool so they can track their fitness goals, ensuring that they get a balance of muscle and bone strengthening activities.

ZIP



Fitness Mini Trainir PhysEd | 90 min.

Students collaborate simulation of a fitness incorporating physica eating, and team-buil





What Happens When You Move?

Science | 90 min.

Students learn about cardiovascular health and the relationship between physical exercise and physiological changes.



PLAY 60 Presents!

ELA/Science | 90 mil

Students create a pre a sport or physical activity and present to the class. Students learn about physical fitness and how different sports involve the use of different muscle groups and other body systems.





Performance

Use this circuit workout to exercise your whole body, increase your heart rate, and keep your physical activity fun and



Lateral Movements

These lateral movements will strengthen your oblique muscles while challenging your mind and heart.



Learn these easy ways to move quickly and efficiently into different positions to increase your coordination.



AHA NFL PLAY60 (PHYSICAL FITNESS)

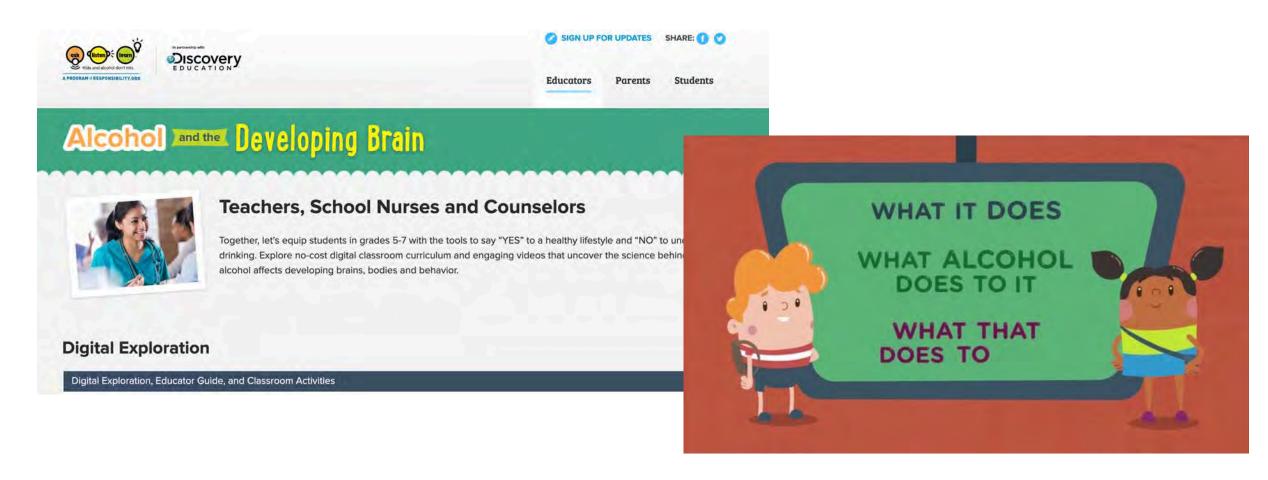




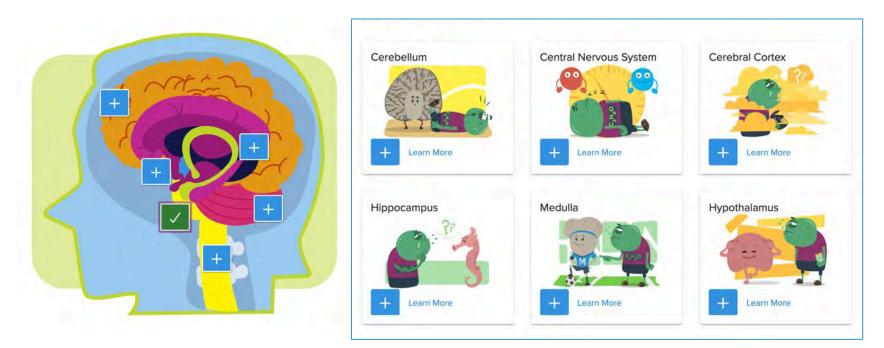


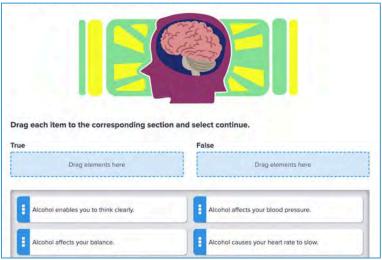


ASK, LISTEN, LEARN – A PROGRAM OF RESPONSIBILITY.ORG (UNDERAGE DRINKING PREVENTION)



ASK, LISTEN, LEARN – A PROGRAM OF RESPONSIBILITY.ORG (UNDERAGE DRINKING PREVENTION)





DOSE OF KNOWLEDGE (SUBSTANCE MISUSE PREVENTION)

Dose of Knowledge

A substance misuse prevention program for grades 6-12







DOSE OF KNOWLEDGE (SUBSTANCE MISUSE PREVENTION)

DIGITAL LESSON BUNDLE



VIDEO

Opioids and their Effects

Grades 9-12

@ 3:53 min

Meet Fernando, a CVS pharmacist who will talk to students about opioids, the risk associated with substance misuse, and what students should do if they are prescribed an opioid.





EDUCATOR GUIDE AND LESSON

Opioids and the Brain

Grades 9-12

@ 45-60 min

Students will receive an overview of what opioids are and examine the short-term and long-term effects they have on the brain and body. Students will learn about substance misuse and substance use disorder.

♣ Digital Lesson PP7 245MB

. Educator Guida PDF 2.3MB





STEM-Based Learning Resources

HANDS-ON STEM EXPLORATION HEALTH & WELLNESS

TECHNOLOGY & ENGINEERING

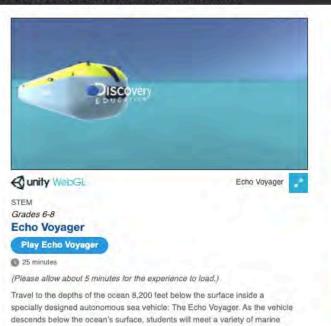
FINANCIAL LITERACY
COLLEGE & CAREER READINESS





BOEING FUTURE U

EXTENDED-REALITY VIDEO AND COMPANION ACTIVITIES





STEM

Companion Activities & Educator Guide Grades 6-8

Welcome to the depths of the ocean! This 360" experience guides students through the epipelagic, mesopelagic, and bathypelagic zones of the ocean to see what kind of marine life lives there and explore underwater volcances. The Educator Guide provides instructions on how to maneuver once inside the experience, while the Companion Activity encourages students to propose their own ideas for how the Echo Voyager could be used to further our understanding of the planet's oceans.

L Companion Educator Guide

. Companion Activity



ecoAction Virtual Field Trip

Boeing and Discovery Education are celebrating the 50th anniversary of Earth Day with the ecoAction Virtual Field Trip.

Students will investigate the themes of air, land, water, and waste as they explore how they can do their part to improve the environment as well as how a large company like Boeing is doing its part, too.

Wondering how we make sure to stay safe on set? Check out the Health and Safety Questions & Answers

















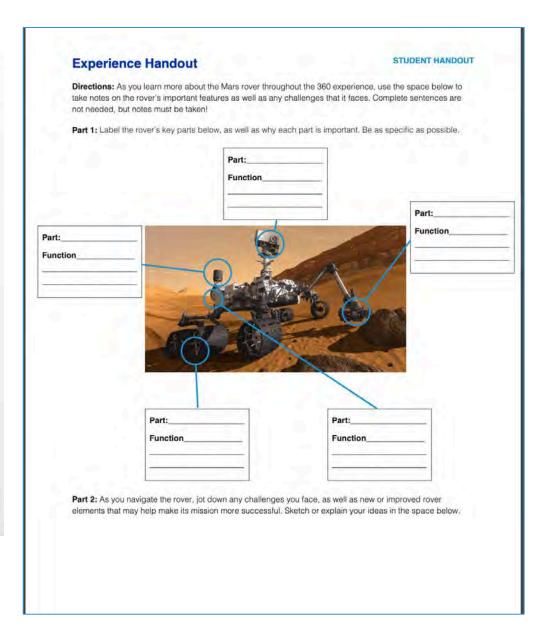


animals, explore the environments in which they live, and consider how they

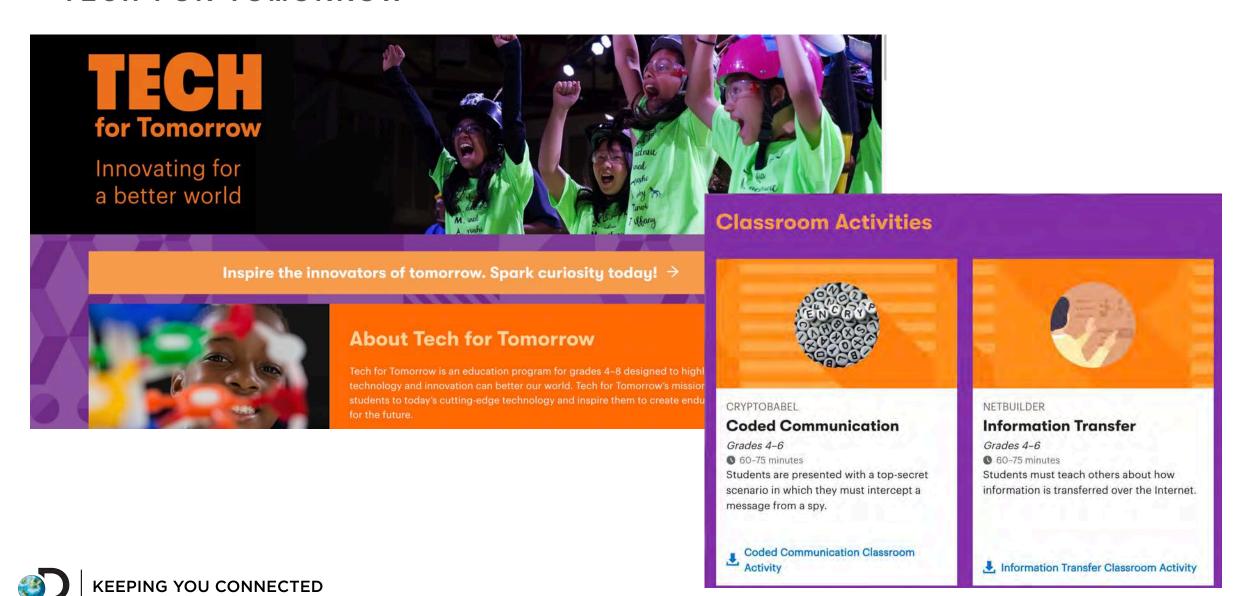
survive in such extreme conditions.

BOEING FUTURE U

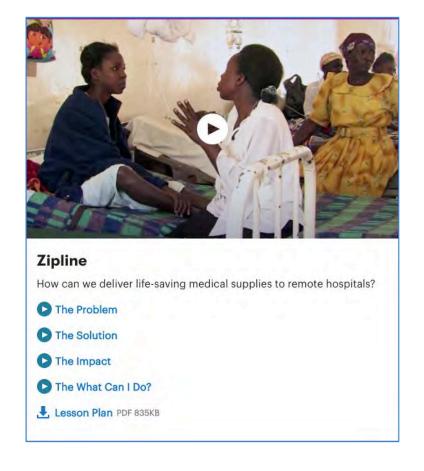
EXTENDED-REALITY VIDEO AND COMPANION ACTIVITIES Companion Activities & Educator Guide Each Activity takes 45-60 minutes **Wunity** WebGL Welcome to Mars! This 360-experience guides students Discover Mars through three space-based scenarios with a focus on STEM various aspects and considerations with respect to Grades 6-8 travelling to Mars. The Educator Guide provides **Discover Mars** instructions on how to maneuver once inside the 25 minutes experience, while the Companion Activities provide wraparound context for the three sections of the experience: Immerse your students in the Mars experience where they can venture to the The Lab, The Rover, and The Museum. Boeing Mars Experiment Laboratory and investigate how to grow plants in Martian soil. Then, program the deep space rover to collect samples for Companion Educator Guide PDF, 2MB research. Finally, enter the Earth-Mars museum to see the differences in . Activity 1: Plant Study PDF, 421KB gravity, magnetism, air pressure, and plate tectonics on each planet. . Activity 2: Rover Exploration PDF, 760KB Explore Extended-Reality Video 🖫 Activity 3: Earth-Mars Physics Museum PDF, 391KB

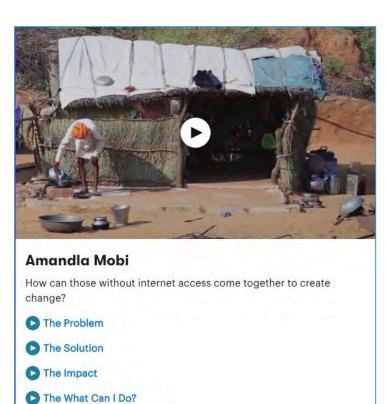


TECH FOR TOMORROW

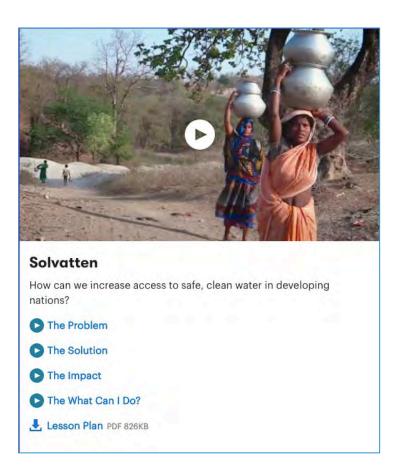


TECH FOR TOMORROW





Lesson Plan PDF 845KB



CONSERVATION STATION



INTERNET OF THINGS: INFINITE POSSIBILITIES VIRTUAL FIELD TRIP

The Internet of Things refers to a collection of computing devices – such as smart speakers, thermostats and sensors –which are connected to a network to allow for an improved real-time data to better manage two of the most critical resources to humanity: energy and water. Students will get an exciting look at how the internet they use in their everyday lives can be used to conserve natural resources, protect ecosystems, and create safer, more sustainable communities.

Get the learning started BEFORE watching the Virtual Field Trip! Download the standards-aligned companion guide to discover how the internet does more for us than we think— it has a direct effect on how we can make our communities more sustainable. The activities designed for completion during and post viewership connect and extend student learning to classroom concepts.

Educator Guide &





Internet of Things: Le Infinite Possibilities Virtual Field Trip



Learn to Conserve



The Internet of Things and Energy Conservation



Design and Development of Smart Meters



Smart Cities and Environmental Actions



The internet of Things and Natural Disasters

Unable to watch the video above? Watch on YouTube here.

CONSERVATION STATION



WEEK OF RESOURCEFULNESS

Creating a Water Conscious Meal

Grades 6 - 9

3 45-60 minutes

This activity is designed to help families understand how their food choices affect water availability on Earth by discovering how much water is needed to produce certain foods.

Family Activity &



WEEK OF RESOURCEFULNESS.

Energy Audit

Grades 6 - 9

45-60 minutes

Families will identify the top 3 devices that consume the most electrical energy and develop a plan to reduce the amount of energy used in the house.

Family Activity &



WEEK OF RESOURCEFULNESS

"Smarter" Home Blueprints

Grades 6 - 9

45-60 minutes

Family members will work together to create a blueprint of their living space that highlights ways that they can save energy and water.

Family Activity &



Create a Global Energy Infographic

Grades 6 - 9

@ 45-60 minutes

In this activity, students will use the Global Energy Statistical Yearbook 2018 to view data about energy use around the world. They will be able to lock at various types of energy use, such as oil, gas, and renewable energy, by country and compare and contrast how different countries consume energy.

Download Activity &



Harvesting Energy in Your School

Grades 6 - 9

45-60 minutes

In this activity, students will discover how high school science students used technology and innovation to harvest energy at their school from an act as simple as walking down the hallway. Students will be asked to think about their own school and identify ways that various types of energy, such as kinetic or heat energy, may be lost every day.

Download Activity &



CLASSROOM ACTIVITY

How Much Water Does it Take?

Grades 6 - 9

0 45-60 minutes

In this activity, students will be introduced to the idea that it takes water to make many of the products that we buy and use or consume every day. Often the amount of water and the way that it is used is unexpected and hidden from the consumer.

Download Activity &



Calculating Your Ecological Footprint

Grades 6 - 9

Q 45-60 minutes

In this activity, students will consider and estimate their consumption of energy used in the home,

transportation, food, housing, and for goods and services, while estimating the amount of waste they generate. The goal is to identify ways they can reduce the impact that they have on

Download Activity &

CLASSROOM ACTIVITY



Combustion Energy Conversion

This activity demonstrates the conversion of energy into usable forms through a demonstration showing the conversion of potential chemical energy to heat energy. Students will discussion how to improve this process to create electrical energy.

Download Activity &

CLASSROOM ACTIVITY



Solar Powered Homes

Grades 6 - 9

45-60 minutes

In this activity, students will study how solar electricity can be generated, stored, and utilized in homes. Students will be given a small solar panel to test and improve.

Download Activity &



STEM-Based Learning Resources

HANDS-ON STEM EXPLORATION

HEALTH & WELLNESS

TECHNOLOGY & ENGINEERING

FINANCIAL LITERACY

CAREER EXPLORATION





Financial Literacy

CHA-CHING MONEY SMART KIDS

Educational Resources



Classroom Activities

Activities made especially for K-6 educators to provide the knowledge and tools necessary for kids to be money smart. Get your class rockn' with the band and learning the building blocks of finance.

Download Classroom Activities (ZIP)



Educator Guides

Guides created to help educators make meaningful classroom connections and leverage the Cha-Ching financial literacy videos and classroom activities.

Download Educator Guides (ZIP)



Family Activities

Activities made especially for parents to provide the knowledge and tools necessary for kids to be money smart. Get the entire family involved in creating a strong financial future!

Download Family Activities (ZIP)



Financial Literacy

CHA-CHING MONEY SMART KIDS

Videos



Episode 1

Earn, Save, Spend, Donate

Download Activity (ZIP)



Episode 2

It's Got to be Earned

CD Download Classroom
 Activity (PDF)
 CD Download Family Activity
 (PDF)



Episode 3

Entrepreneur

Download Classroom Activity (PDF)



Episode 4

Grow Money

O Download Classroom Activity (PDF)



Episode 5

Saving For Success

Download Family Activity (PDF)



Episode 6

Just in case

Download Classroom Activity (PDF)



Episode 7

Spend Your Money Wisely My Friend

○ Download Classroom
 Activity (PDF)
 ○ Download Family Activ

Download Family Activity (PDF)



Episode 8

Please Little Spender, Think

Download Classroom Activity (PDF)



Financial Literacy

PATHWAY TO FINANCIAL SUCCESS





UNIT 1: BEING FINANCIALLY RESPONSIBLE

Budgeting: What Is It and How Does It Work?

Simply put, a budget is a spending plan for your money. Learn how to use a budget to map out your path to financial success.

Watch Unit 1 Video



UNIT 2 : GETTING PAID

What Do You Want to Be When You Grow Up?

It's not too early to think about your future career. Learn how to research careers and consider how your education can help you meet your goals.

Watch Unit 2 Video



UNIT 3: PAYING YOURSELF FIRST

How Can You Get the Most from Your Money?

Money does not grow on trees, but it can grow with smart planning. Learn how savings accounts increase the value of your funds with compound interest.

Watch Unit 3 Video



UNIT 4: USING CREDIT WISELY

What is Credit, and How do You Use It?

When it comes to money, credit is basically a loan where you borrow money with the promise of paying it back later. Learn how to use credit, responsibly, to pay for items you want or need.

Watch Unit 4 Video



UNIT 5: MAKING MAJOR FINANCIAL DECISIONS

"To Buy or Not to Buy" That is the Question

From your favorite social media stars to ads popping up in apps, does everyone seem to be trying to sell you something? Learn how to block out the noise and evaluate purchases as a savvy consumer.

Watch Unit 5 Video



UNIT 6: GROWING & PROTECTING YOUR FINANCES

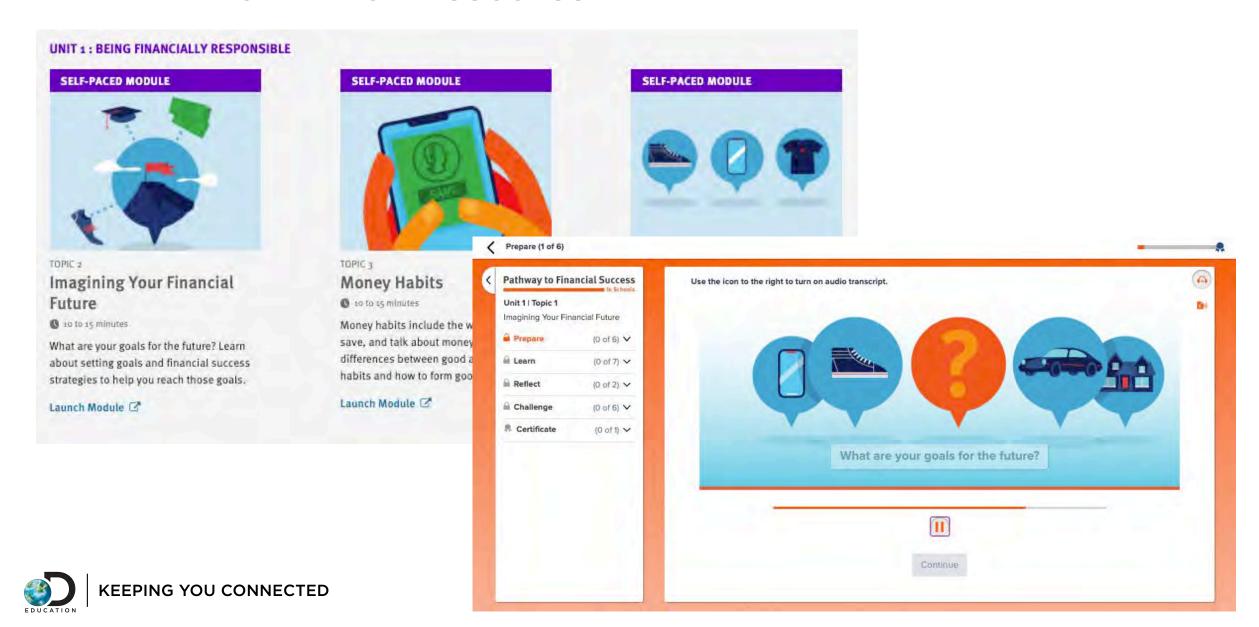
The Risks and Rewards of Investing

What exactly is investing, and how is it different than setting up a regular savings account? Discover ways to own a piece of a company with this introduction to the stock market.

Watch Unit 6 Video

Financial Literacy

PATHWAY TO FINANCIAL SUCCESS



STEM-Based Learning Resources

HANDS-ON STEM EXPLORATION HEALTH & WELLNESS

TECHNOLOGY & ENGINEERING

FINANCIAL LITERACY

CAREER EXPLORATION





INNOVATION GENERATION

Career Profiles

Show students the many STEAM careers available to them with detailed career profiles featuring professionals from Stanley Black & Decker.



Meet Shernale

3 minutes

Shernale is a Materials Engineering Manager at Stanley Black & Decker who manages the prototype teams to ensure they have the most high quality materials for their products.

Download Career Connection | Watch Video (



Meet Caroline

4 minutes

Caroline is an Outdoor Product Manager at Stanley Black & Decker who ensures that outdoor products like mowers and leaf blowers meet marketplace needs.

Download Career Connection 4 Watch Video (



Meet Harry

4 minutes

Harry is a Technical Innovation Lead at Stanley Black & Decker who devises new and improved methods and protocols for machine operations.

Download Career Connection 1 Watch Video [

INNOVATION GENERATION

Making an Impact

Outdoor Product Manager

Who are they?

Outdoor product managers are goal-focused designers and strategist concerned with how to manage and build a product! They tell engineers why product features are essential for the customer. Outdoor product managers must create user experiences with products that solve problems and provide customer benefit. They are experts in the dutdoor product market. They see products from the idea stage through the release of products to the marketplace

What do they do?

They v proring needs reache

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training

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INNOVATION GENERATION

STEAM DAY OF LEARNING CONNECTION RESOURCES

Making an Impact

In addition to a bachelor's degree, this position requires:

- . Experience in outdoor product development and marketing.
- The Na . Courses in the degree that include courses in drawing, computer-aided design, and drafting (CADD), in art a and three-dimensional modeling
 - . Business courses in marketing and sales

Salary Ranges*:

Associate Product Manager: \$50,000-\$70,000 Product Manager: \$70,000-\$105,000 + Bonus Senior Product Manager: \$90,000-\$135,000 + Bonus Director Product Management: \$130,000-\$190,000 + Bonus

'Salaries given are averages for Stanley Black & Decker. Salaries may vary between a state's urban, suburban, and rural districts and should be adjusted for cost of living.

Job Outlook®

Employment is expected to grow by 4% by 2026. Outdoor product managers have the unique opportunity to combine a love of outdoor recreation and sports with a creative employment field in a growing market Combining advancements in technology and engineering into products that make experiencing outdoor adventures that were never possible in the past for the average consumer.

Into Q. Technical Leadership: The Office Overlooked Skills and Responsibilities of a Technical Team Leader; on the internati https://www.infog.com/articles/technical-leadership-overseen/ (August 18 2019)

StenleyBlack&Decker Discovery 2





INNOVATION GENERATION



STEM CAREERS COALITION



Software Engineer

Elementary, Middle, and High School I Grades: K-12

Video Length: 5:19 mln

Software Engineers apply the principles of engineering to computer science to create software that powers computers and many other everyday electronic devices. Their expertise in programming languages offers many career opportunities developing apps, video games, social media and more.

. Student Activation (.pdf)

L Career Profile (.pdf)



Al Researcher

Elementary, Middle, and High School I Grades: K-12

Video Length: 3:59 mln

Senior Principal Researchers have an adept understanding of advanced Artificial Intelligence technologies, which they utilize to envision the next worldchanging application of Al and figure out how to bring it to life. They also think deeply about the ethics of Al's relationship to people and society.

. Student Activation (.pdf)

L Career Profile (.pdf)



Data Scientist

Elementary, Middle, and High School | Grades: K-12

Video Length: 3:26 mln

Data Scientists use curiosity and attention-to-detail to "wrangle" massive datasets in search of patterns and information that can help companies solve problems. Data science careers are available in almost every industry. incorporating machine learning, computer science, and other state-of-the-

... Student Activation (.pdf)

L Career Profile (.pdf)



Welder

Elementary, Middle, and High School I Grades: K-12

Video Length: 1:24 min

Welders use hand-held or remotecontrolled equipment to join or cut metal parts, with a combination of mechanical expertise and artisanship. They bring ideas, concepts, and plans to life through their knowledge of all types of metals and the tools and techniques necessary to fuse a permanent bond.

L Student Activation (.pdf)

L Career Profile (.pdf)



Technician

Elementary, Middle, and High School I Grades: K-12

Video Length: 1:49 min.

Technicians are excellent problem solvers who like to work with their hands and make things work, often using the mastery of sophisticated equipment. Technicians are needed in a wide variety of environments and fields, whether working independently or under the

direction of a professional. L Student Activation (.pdf)

L Career Profile (.pdf)



Facilities Engineer

Elementary, Middle, and High School I Grades: K-12

Video Length: 4:25 min

Facilities engineers are the masterminds who oversee all the essential aspects of maintaining a facility, whether for planning new projects or improving existing facilities. They ensure optimal facility operations by designing, constructing, and managing all infrastructure components.

. Student Activation (.pdf)

Lareer Profile (.pdf)



OVERVIEW

world.

Chemical Engineer

EVALUATE YOUR INTEREST ☐ I like collaborating with others.

I enjoy analyzing and solving problems.

physics, engineering, chemistry, and biology.

☐ I like being creative and thinking outside the box.

Chemical Engineers figure out how to transform

chemicals and raw materials into products that

humans can use. They also create and improve upon

the processes that develop these products. Chemical

and develop strategies to improve the quality of food,

address environmental challenges as they develop

systems that reduce pollution, work to improve the

efficiency of energy sources like oil and gas, or develop

fibers that make clothes more durable. No matter what,

this career helps transform ideas that begin in science

labs into products and processes that will benefit the

☐ I am interested in a variety of STEM subjects, including math,

Engineers could, to name a few, work in food production



some other reers?

with chemical

hemists investigate composition of They perform to understand what are made of and how

elopment Scientists de range of industries urrent products, fuct concepts, and products, Like ls in this field.

How does this career

earch and perform n order to develop new d processes. They then indings with Chemical ho help transform their o something the public larger scale.

different conditions.

gineers, they use many

affect the world?

Chemical Engineers positively impact life around the world in countless ways. For instance, their work in medicine and technology contributes to important healthcare advances. Their roles in fields like waste systems and the energy industry also means that Chemical Engineers play an important role in designing new innovations to keep our environment clean, while still producing needed resources. With all of the fields that Chemical Engineers touch, it's no surprise that Chemical Engineers are





assess how energy is currently used. Use your re energy efficient, and work with your family to

prove a common process in your home, school, or e organized, how to help students switch between nunity bus routes to reduce air pollution!

www.STEMCareersCoalition.org

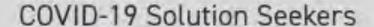


www.STEMCareersCoalition.org





STEM CAREERS COALITION



With the rapid spread of COVID-19 effecting nearly every aspect of life, many inspiring people, communities, companies, and governments have quickly mobilized to fight the spread of the coronavirus. COVID-19 Solution Seekers highlights a series of diverse individuals working in a variety of industries, who are all harnessing their STEM skills to help contribute to this urgent global effort.



COVID-19 SOLUTION SEEKER

Senior Policy Advisor, American Petroleum Institute

Grades K-1Z

Video Length: 3:35 mln

With expertise in addressing community concerns about environmental health issues, Uni is drawing on her knowledge to help mitigate the spread of COVID-19, finding ways to reduce transmission in community areas and workplaces.



L Companion Activity



COVID-19 SOLUTION SEEKER

Senior Researcher, Microsoft

Grades K-12

Video Length: 3:50 mln

To help support precision medicine in clinical settings during the pandemic, Grace uses data science methods to research and identify genetic, biologic, and environmental factors that help in tracking and treating the virus.



Companion Activity



IGNITE MY FUTURE

Career Vignettes

See computational thinking at work. Meet the diverse and dynamic people who have taken their passions and launched amazing careers in computer science and design thinking. Our career connections highlight professionals in a variety of specialties.



Christopher

Business Analyst

Christopher loved the complexity of video games growing up. Now he serves as a centerpoint for his clients and his company, connecting all of the pieces.



Elisha

Quality Assurance & Control

Computer Engineering class in high school ignited Elisha's love of technology. Today, thousands of professionals rely on the applications she tests for accuracy daily.



Saravanan

Business Analyst & Designer

Saravanan had an early knack for identifying and solving problems. Now, he combines his computer and math skills with creativity and brainstorming to develop the best products and solutions for users.



10 Tips for Success

Computer Science | EL Abstract | Develop Alg

Analyze data about w companies successful, themes to develop a ' teaching others how t and turn it into a thriv



Download Act



Career-o-Matic

Career Development Social and Emotional Learning | Math | Computer Science

Analyze Data | Develop Algorithms

Act as data scientists tasked with creating the Career-o-Matic, a new instrument that identifies the perfect career for a student through algorithms calculating the best fi for individuals based on their customized values.



Download Activity

IGNITE MY FUTURE



Resources

Ignite their knowledge in the classroom and at home with resources that will get students on the path toward seeing the world through the powerful lens of computational thinking

Middle School Curriculum

Explore content by subject, guiding question or computational thinking strategy

Family Activities

Engage in computational thinking with family-friendly activities that can be applied at home

Career Vignettes

Meet professionals using computer science and design thinking to build a brighter future

Master Class

What does computational teaching look like in real classrooms? Meet three real-life educators who share their personal experiences and demonstrate their computational teaching strategies within diverse classrooms. Teachers will share their insights and success utilizing unique tools.



Pete Delgado

Young Women's STEAM Research and Preparatory Academy.

El Paso, TX

Meet Pete and learn how he consistently infuses aspects of computational thinking into his daily lessons, including collect and analyzing data, decomposing problems, building models, and developing algorithms.



Jenna Rosienski

Franklin Middle School

Janesville, WI

Meet Jenna and learn how she demonstrates computational thinking across subjects and the importance of collaboration with her fellow educators and administration that has made this strategy such a success.



Emy Aultman

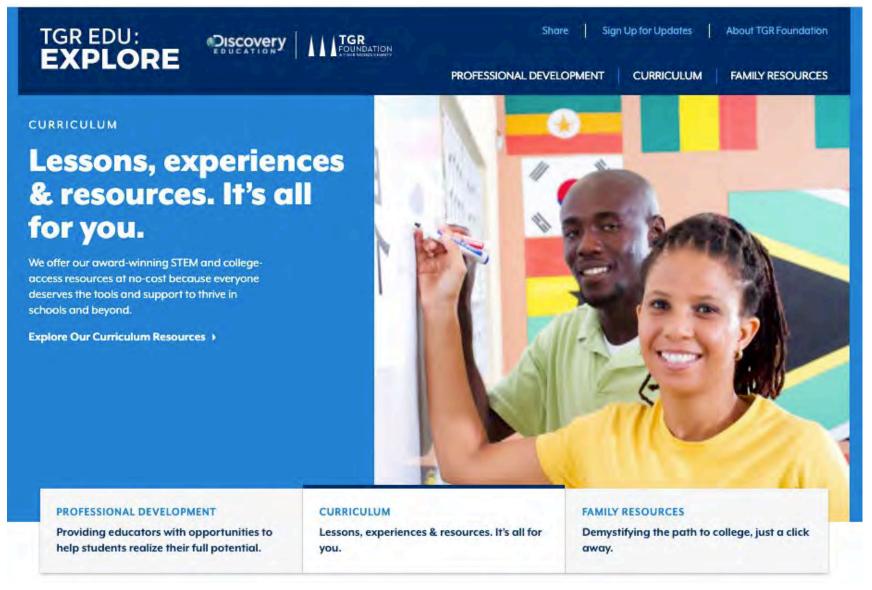
G.O. Bailey Elementary School

Tifton, Georgia

Meet Emy and learn how she debunks myths about teaching computational thinking – such as needing technology like computers in the classroom to use computational thinking resources or that teaching computational thinking will take time away from "regular" classes.



TGR EDU: Explore

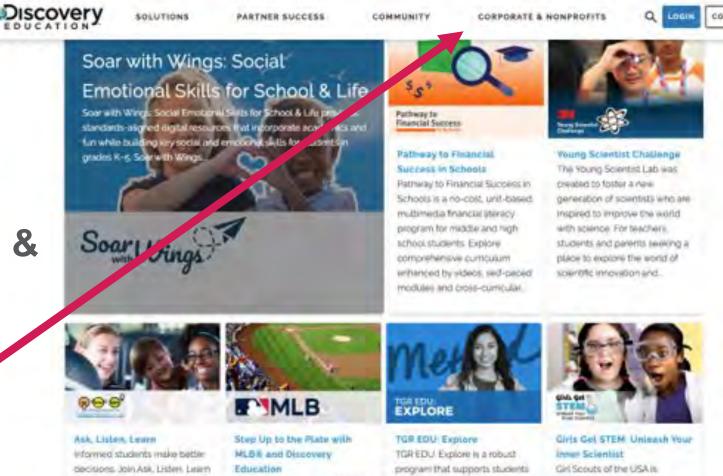


Gyla Bell Senior Director, Programs TGR Foundation

Where to find the programs

1. Corporate & Nonprofits Section

2. Corporate Education Partnerships



in college preparation and high-

quality STEM career paths.

Available at no cost, the

unleashing a new partnership

spark garls' interest in STEM and

with Discovery Education to

Discovery Education and Major

League Basebaltiff are fearning

up to energize classrooms with

and Discovery Education as we.

alcohol affects developing

uncover the science berind how

Where to find the programs





Where to find the programs

EXPERIENCE







