



# Daily DE

— HIGH SCHOOL GRADES 9-12



# Week 2: Grades 9-12

## MONEY MONDAY

Explore self-paced online modules and other tools to equip you to make sound financial decisions to meet your life goals.

## TECH TUESDAY

Learn more about the way that emerging technologies are solving everyday problems.

## WELLNESS WEDNESDAY

Empower yourself to make good decisions for the health and well-being of yourself and those in your community.

## TRY-IT THURSDAY

Get hands-on as you engage in the scientific thinking process.

## FIELD TRIP FRIDAY

Go on virtual field trips to amazing destinations and learn more about the many career options available to you.

## WEEKEND CHALLENGE



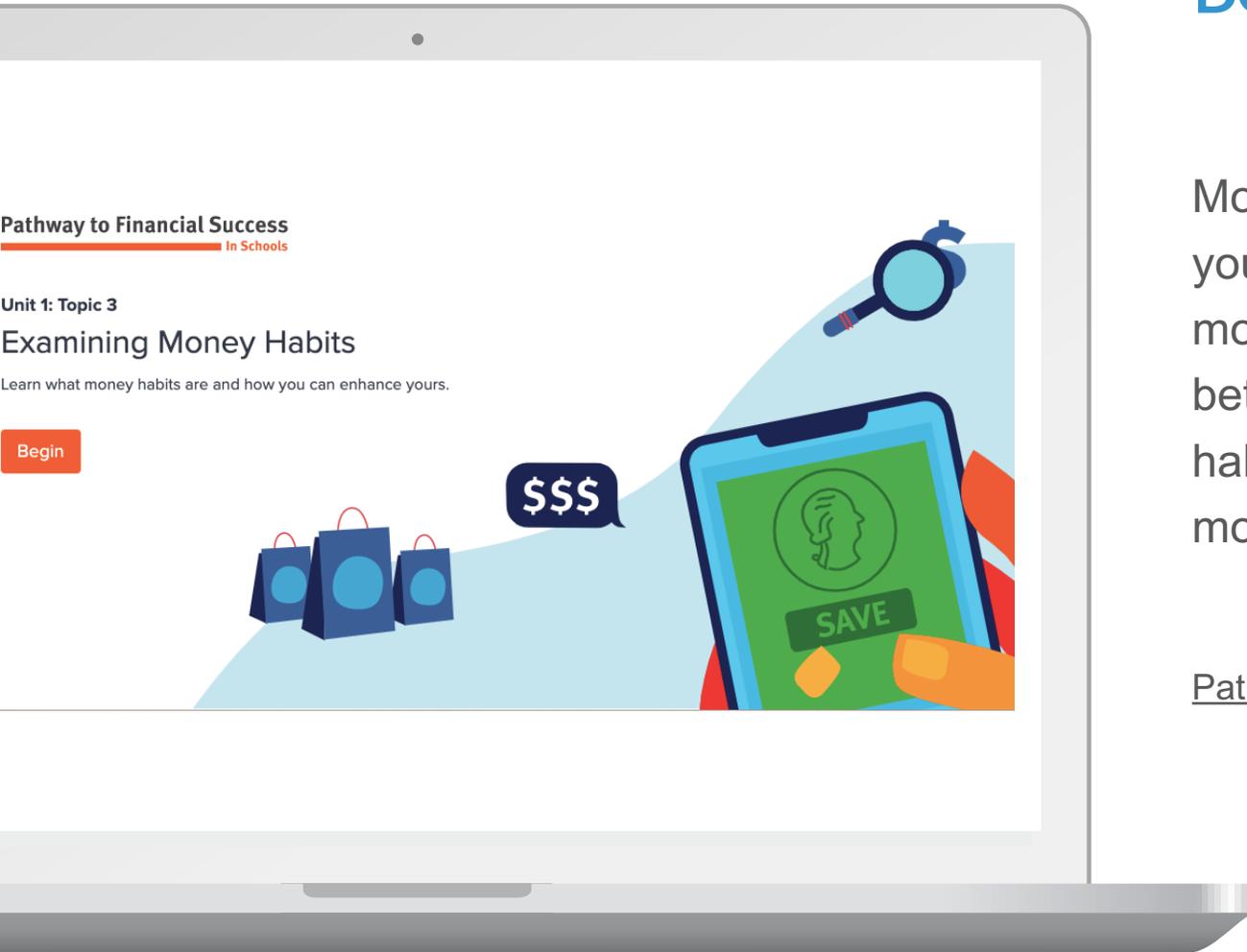
Visit the [Family Activities](#) sponsored by the American Heart Association and the NFL. Work together with members of your family to plan for the [What Happens When You Move-5 Day Physical Activity Challenge](#).

Find ways that your family can stay active each day next week while at home. Take pictures and share them using the hashtags #getmovingplay60 and #bettertogether



# Money Monday

# Being Financially Responsible



Money habits include the ways you spend, save, and talk about money. Learn the differences between good and bad money habits and how to form good money habits.

[Pathway to Financial Success in Schools](#)

**SELF-PACED MODULE**



TOPIC 3  
**Money Habits**  
🕒 10 to 15 minutes

Money habits include the ways you spend, save, and talk about money. Learn the differences between good and bad money habits and how to form good money habits.

[Launch Module](#) ↗



# Tech Tuesday

# Manufacture Your FUTURE

Investigate the applications of 3D printing, robotics, and computers to discover how each of these technologies help teams of manufacturers solve complex problems that improve processes, products, and people's lives. Explore the relationship between advanced manufacturing careers and the products they build that shape our world.



### Organize

Use the table below to organize your child's interests in the five main characteristics of manufacturing careers. Your child can rank each characteristic by checking if they are very interested, somewhat interested, or not at all interested.

Next, share potential careers from the table below that align with characteristics that most interested your child. Ask your child to identify one or two careers they would like to learn more about.

		Very Interested	Somewhat Interested	Not at all interested
<b>Design and Engineering</b> What do I want to make? How do I make it?	Advanced manufacturing occupations include materials analyst, robot technician, assembler, plant accountant and design engineers.			
<b>Materials Science</b> What are things made of?	Advanced manufacturing occupations include materials analyst, design engineers, materials analyst, and machinists.			
<b>Process Technology</b> How are things made?	Advanced manufacturing occupations include materials analyst, robot technician, assembler, plant accountant and design engineers.			
<b>Quality</b> How can this product make a difference?	Advanced manufacturing occupations include green careers industrial engineering technicians, manufacturing engineering technologist, and manufacturing engineers.			
<b>Management</b> How do I get this product to consumers? (supply chain, sales, process chain/instructions writing)	Advanced manufacturing occupations include chief manufacturing executive, chief quality control executive, facilities manager, and plant operator.			

### Next Steps

Once your child has identified the two or three jobs that are most appealing, suggest that he or she engages in additional research using [Careers.org](https://careers.org). Encourage your child to speak with someone in the profession or help him or her network by reaching out to a local business. Then, consider working with your school counselor to learn about the right courses to take to help your child best prepare for a career of interest.

After completing the interactive, consider the careers that you have learned about.

[Download the Family Discussion Starter](#)

Complete the organizer as you discuss possible interests with a parent or guardian. Discuss possible career paths and determine what research you need to do to find out more.



# Wellness Wednesday

# The Problem of Opioid Abuse

Explore resources to be informed how the opioid epidemic can impact communities.

After reviewing the resources, explore the self-paced module to better understand the science behind addiction and identify strategies to better equip you to face difficult decisions.

## LESSON



### Reporting on a Public Health Crisis: Opioids in the Community

Students will investigate how the opioid epidemic impacts their community acting as investigative reporters to investigate the who, what, when, where, why, and how of opioid use and misuse.

[Download the Digital Lesson:  
Operation Prevention](#)

## SELF-PACED MODULE



### The Science of Addiction

#### The Stories of Teens

In this self-paced, standards-aligned e-learning experience, students meet teens who are struggling with prescription opioid misuse and heroin use and learn the science behind their powerful stories. With strategies and resources for those being faced with a decision about prescription opioid misuse or struggles with addiction, students become better equipped to handle these experiences.

[LAUNCH MODULE](#)

[EDUCATOR GUIDE](#)

[Operation Prevention Self-Paced Module](#)

# Explore How Happiness Benefits Your Brain



## The Benefits of the Six Sustainable Happiness Skills

Grades 7-12

Varies

Delve into the science behind happiness and learn how happiness can impact the physiology of the brain, and the positive effects it can have on learning.

 **Open Digital Experience**

[Brain Benefits Infographic](#)





Try-It Thursday

# Make a Catapult!

Utilize principles from geometry and physics to build and test your own catapult.



# What is the best angle?

## Materials

- ✓ rubber bands
- ✓ popsicle sticks
- ✓ plastic spoon
- ✓ projectiles  
(Tic-Tacs, mini marshmallows, wadded paper, ping-pong balls)
- ✓ protractor
- ✓ feel free to substitute materials with what you have around the house

[Printable protractor](#)



## Consider

- ✓ What is the best angle to maximize the range of your catapult with the given materials?
- ✓ Does the mass of the projectile have an effect on the angle that maximizes the range?

## Explore

- ✓ Design your catapult and test, using the protractor to find the best angle for the furthest range.
- ✓ Test a variety of projectiles. Does the angle change in relation to the mass of the projectile?

## Reflect

- ✓ Which angle launched the projectile the furthest? Why do you think that is?
- ✓ If the goal of the catapult was to launch a projectile over a tall enemy wall, how would your approach to the problem change?
- ✓ What are some other ways to build your catapult?



# Field Trip Friday



## The Science Behind Your Food brought to you by Cargill & AgExplorer

This virtual field trip takes students to Cargill's Innovation Center in Wichita, Kansas where they get an inside look into the world of agriculture and learn how careers in science and technology play a key role in getting food to your table in a safe and affordable way. Students will hear from numerous Cargill employees that represent a variety of interesting careers from a Food Marketer to Food Scientist and more!



# The Science Behind Your Food

Get an inside look at agriculture and learn how careers in science and technology play a key role in getting food to your table in a safe and affordable way.

Explore: [AgExplorer](#)

# Explore Careers in Agriculture

After viewing the virtual field trip, visit the AgExplorer Career Finder to learn more about careers in food science and agriculture.



[About](#) | [Educator Resources](#) | [Career Finder](#) | [Virtual Field Trip](#) | [Sign Up for Updates](#) | [Career Focus](#)

HOME

## Career Finder

The industry of agriculture can open up a world of possibilities, and the demand for professionals in every agricultural area is high. Learn more about which career may be right for you by completing the Career Finder interactive.

Launch Career Finder

AG EXPLORER  
Find your Future in Agriculture

Discovery EDUCATION

Career Finder

EXPLORE YOUR CAREER  
See what careers might be best for you by answering the following 13 questions.

Start Now

[Launch Career Finder](#)

# Explore Careers

After completing the Career Finder interactive, choose at least one of the suggested careers.

Discuss the findings with someone and make a list of further topics to research such as training programs, colleges, scholarships, professional organizations, etc. to learn more.

The screenshot displays the 'AG EXPLORER' logo with the tagline 'Find your Future in Agriculture' and the 'Discovery EDUCATION' logo. Below the 'Career Finder' header, the main title 'CAREERS FOR YOU' is followed by a decorative graphic of colorful circles. Four career profiles are presented in a grid:

- Agricultural Science Teacher**: Agricultural science teachers educate students about agriculture, food and natural resources. Through these subjects, they teach students a wide variety of skills like science, math, communications, leadership, management and technology. [Learn More →](#)
- Environmental Compliance Officer**: Environmental compliance officers enforce and implement environmental laws in regards to water, oil, gas, energy and other environmental sectors. [Learn More →](#)
- Landscape Designer**: Landscape designers typically work for companies or groups that provide landscaping design and maintenance services for companies or individuals. These individuals plan, propose and oversee the development of landscapes. [Learn More →](#)
- Nutrient/Waste Management Specialist**: Nutrient/waste management specialists develop means for removing and managing animal and food waste from the environment. They monitor processes that remove or destroy harmful materials, chemicals and microorganisms from water or land. [Learn More →](#)

# References:

## Money Monday: Money Habits:

Program URL: <https://www.pathwayinschools.com/>

Specific URL: <https://www.pathwayinschools.com/sites/default/files/discover-1-3/>

Short Link: <https://tinyurl.com/Money-Habits>

## Tech Tuesday: Do You Have What it Makes?

Program URL: <https://www.manufactureyourfuture.com/>

Specific URL: <https://www.manufactureyourfuture.com/sites/default/files/modern-manufacturing/#/0>

## Wellness Wednesday: Peer Pressure

Program URL: <https://www.operationprevention.com/>

Specific URL: <https://www.operationprevention.com/sites/default/files/science-of-addiction/>

Specific URL: <https://www.operationprevention.com/classroom>

## Wellness Wednesday: Explore Your Happy

Program URL: <https://www.learnexperiencehappiness.com/>

Specific URL: <https://www.learnexperiencehappiness.com/sites/default/files/lg-infographic/>

Short Link: <https://tinyurl.com/LG-Happy>

## Try-It Thursday Angled Launch

Program URL: <https://www.innovation-gen.com/>

Specific URL: <https://www.innovation-gen.com/for-volunteers>

Short Link: <https://tinyurl.com/Angled-Launch>

## Field Trip Friday: The Science Behind Your Food

Program URL: <https://agexplorer.com/>

Specific URL: <https://agexplorer.com/virtual-field-trip/archive/2017-cargill>

Short Link: <https://tinyurl.com/Cargill-Food>

Interactive Career Finder: <https://agexplorer.com/career-interactive>

## Weekly Challenge: 5 Day Physical Activity Challenge

Program URL: <https://aha-nflplay60.discoveryeducation.com/families>

Short Link: <https://tinyurl.com/5daymovementchallenge>