Week 5: 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 Conservation Station to complete an Energy Audit of your family home this weekend. Determine the top 3 devices that consume the most electrical energy and develop a plan to reduce the amount of energy used in your house.
Money Monday
What should you think about before making a purchase? Learn to analyze your spending choices and the factors that affect your spending, so you can think before you spend.

Pathway to Financial Success
Tech Tuesday
Cracking the Code

Have you ever wondered how epidemiologists use technology to track disease? Or, how genomics can be used to stop outbreaks?

In this activity, you will investigate how viruses pass from person to person and how scientists use DNA to track disease outbreaks.

Watch *What is Epidemiology* and download the Genetics Detective article to review the methods epidemiologists use to study and track disease outbreaks.

Then, review the Perspectives of an Outbreak handout.

Discuss how genomics and the field of epidemiology work together to impact the tracking and spread of disease with someone in your home.

DNA Decoded Activities
Wellness Wednesday
Before watching the video, consider the statements below and decide if you believe they are true or false.

- 90% of our happiness is due to external circumstances. True/False
- Happiness is a skill that can be taught. True/False
- Our brains do not have the ability to change after the age of 10. True/False
- The sympathetic and parasympathetic nervous systems work to counteract one another. True/False
- The limbic system is called our fight or flight system. True/False
- Higher level thinking occurs in the center of our brain. True/False
- There is no connection between happiness and performance in school. True/False
Discover Your Happy: Your Brain on Happiness

Now, watch the video. As you watch, consider the statements from the prior slide.

Have any of your opinions changed? Why?
Identify evidence from the video that supports your decision for each statement.

Rewrite any statements that you determine to be false so that they were more factual.

Make a list of “5 Things You Did Not Know” about the brain and how happiness can affect it.

Experience Happiness: Discovery Your Happy
Try-It Thursday
Engineering is the application of science and technology to solving a problem. Engineers look for problems they want to solve or how to improve a process or physical design. Creating an invention is an example of an engineering a solution.

Adapted from Science Fair Central
How can you keep your juice cool?

My juice gets warm in my lunchbox.

Science Topic: Conserving heat
Design Question: How can I keep it cold?

Select this problem
Continue to the next step.

Consider:

✓ What is the problem that you want to solve?
✓ What scientific concept do you need to research?
✓ What information do you need to collect?
✓ What materials will you need?
✓ What design might solve the problem?
✓ How can you test your design?
✓ How can you improve your design?

Use the Engineering Design Worksheet to guide you through your process.

Discover more engineering design ideas to explore.

Adapted from Science Fair Central
Field Trip Friday
Join us as we go behind-the-scenes at the Palo Verde Generating Station, the largest power plant in the United States. Watch now to see how nuclear technologies are helping to develop more environmentally friendly electrical power!

As you watch the Virtual Field Trip, complete the Careers in Nuclear Energy Capture Sheet
Explore Careers

After collecting information about the four careers highlighted during the virtual field trip, choose one to research further.

Complete the Career Profile Research Sheet for your chosen career profile.

Discuss the career with a family member. What about this career interests you? What are some of the things you would need to do in preparation for this career?
References:

**Money Monday: Spending Wisely**
Program URL: https://www.pathwayinschools.com/
Specific URL: https://www.pathwayinschools.com/sites/default/files/discover-1-5/
Short Link: https://tinyurl.com/Wise-Spending

**Tech Tuesday: Cracking the Code**
Program URL: https://dnadecoded.org/index.html
Specific URL: https://dnadecoded.org/pdfs/Activity-Disease_Detective.pdf

**Wellness Wednesday: Your Brain and Happiness**
Program URL: http://learnexperiencehappiness.com/
Specific URL: http://learnexperiencehappiness.com/educators

**Try-It Thursday: Engineer a Solution**
Program URL: https://www.sciencefaircentral.com/
Specific URL: http://sciencefaircentral.com/students/engineering-projects

**Field Trip Friday: STEM Careers**
Program URL: https://navigatingnuclear.com/
Specific URL: https://navigatingnuclear.com/palo-verde-generating-station-vft

**Weekly Challenge: Conduct an Energy Audit of Your Home**
Program URL: https://www.learntoconserve.com
Specific URL: https://www.learntoconserve.com/educator-resources