Week 2: Grades 6-8

MINDS-ON MONDAY
Explore digital interactives that get you thinking.

TUNDRA TUESDAY
Learn more about polar bears, the arctic, and how you can help protect our environment.

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

THURZDAY SKILLZ DAY
Apply your thinking skills to real-world questions.

FIELD TRIP FRIDAY
Go on virtual field trips to amazing destinations.

WEEKEND CHALLENGE
Take a family vacation to Mars or check out the other family activities at Generation Beyond.
Minds-On Monday
Uncover the mystery of animal relatedness with this digital exploration.

TGR EDU: Explore
Tundra Tuesday
Polar bears are superbly adapted for life in the Arctic. They are a vital part of this vulnerable ecosystem and a charismatic symbol of the North. Take an interactive journey through the story of the polar bear.

polarbearsinternational.org/story

The Sea Bear

Just as each snowflake is unique and one of a kind, so too is each polar bear’s path across the sea ice.

Read this article to learn more about the polar bear’s path.

Then track a polar bear using the Bear Tracker from Polar Bears International.
Whelmers’ Wednesday
Salt Engineering

Be whelmed! Capture your curiosity and engage in the scientific thinking process as you discover how forces can be directed in mechanical systems.

3M Young Scientist Lab: Whelmers Salt Engineering

For more Whelmers check out the 3M Young Scientist Lab.
ThurZday SkillZ Day
Budgeting

How do you picture your future? Making your dreams come true requires smart planning, especially in managing your money.

Let’s start by understanding how to budget our money.

Go to:

Pathway to Financial Success in Schools

Watch the Unit 1 video.
Your Weekly Budget

Here’s a scenario to put your math skillz to the test.

You earn $120 this week from your job at the trampoline park and your mom kindly gives you $30 for working around the house.

You want to save at least 25% of your weekly earnings.

You also have a fixed expense of $10 per week for an online gaming subscription.

Create a weekly budget that shows your expenses and savings.

And, if you didn’t include meals for yourself, how does your budget change if you have to buy at least one of your meals each day for seven days?
Field Trip Friday
Go on a virtual field trip to Arconic’s Advanced Manufacturing hub in Alcoa, Tennessee and learn about the exciting ways robotics and digital technology impact the skills needed to succeed in Advanced Manufacturing.

Before you take your trip, write down or think about your responses to questions 1 and 2 from the activity sheet.

### Applying your Knowledge/Skills to Careers

**Student Activity Sheet 2**

Advances in technology are rapidly changing the field of manufacturing and creating exciting career opportunities for students. Leaders in advanced manufacturing are constantly seeking hardworking and highly skilled associates. Identifying your interests, skills, and attributes can help you identify which careers may fit best for you and help you to begin thinking about your “future self.”

1. What are some of the hobbies that you enjoy? What are some of your interests? List at least three.

2. What are some of your skills? List at least three.

3. While watching the Arconic Virtual Field Trip, match some of your hobbies, interests, or skills with each of the careers featured in the film.

<table>
<thead>
<tr>
<th>Career</th>
<th>Electrical Engineer</th>
<th>Business Improvement Manager</th>
<th>Lab Quality Systems Coordinator</th>
<th>Does this career connect to your talents or interests? Justify your response with evidence from your chart.</th>
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</thead>
<tbody>
<tr>
<td>List two skills the employee mentioned as being critical to his/her job.</td>
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<td>List any special training or education mentioned for this job.</td>
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<tr>
<td>List any of your talents or interests that relate to this job.</td>
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Polar bears are superbly adapted for life in the Arctic. They are a vital part of this vulnerable ecosystem and a charismatic symbol of the North. Take an interactive journey through the story of the polar bear.

Let’s visit go on a virtual field trip!

Manufacture Your Future Self

During your virtual field trip, think about question 3 from the student activity sheet.
References

**Minds-On Monday**
TGR EDU: Explore
https://tgreduexplore.org
https://tgreduexplore.org/curriculum

**Tundra Tuesday**
Polar Bears International Bear Tracker
https://polarbearsinternational.org/polar-bears/tracking/
Article: https://tinyurl.com/wh8m6kl

**Whelmers’ Wednesday**
3M Young Scientist Lab
https://www.youngscientistlab.com
Salt Engineering: https://tinyurl.com/t463tqt

**ThurZday SkillZ Day**
Pathway to Financial Success in Schools
https://www.pathwayinschools.com
https://www.pathwayinschools.com/students/middle-school

**Field Trip Friday**
Manufacture Your Future
https://www.manufactureyourfuture.com
VFT: https://tinyurl.com/yyf9r8lk

**Weekend Challenge**
Generation Beyond
https://space.generationbeyondinschool.com
Family activity: https://tinyurl.com/rnjsx2r