



Grade 8 eLearning Guide – Week 5

Math 8 and PreAP: Devising a College Plan and Integer Operations

- Students will devise a college plan.
- Students will solve problems with integers using all four operations.

Math 8 and 8 preAP have this unit in common.

Beginning Week 5 all high school courses will be conducted through your math teacher.

Science: The Sun's Energy

- Students will explain how the Sun provides the energy that drives convection within the atmosphere and oceans.
- Students will explain how the uneven heating of the Earth's surface produces winds.

Language Arts: How can one man's trash be another man's treasure?

- Students will read short stories and an informational article that raises questions about the value we place on material possessions.

Social Studies: Effects of Reconstruction

- Students will analyze the causes and effects of the Reconstruction Era.
- Students will analyze primary and secondary sources and their notes to respond to the essential question.

Grade 8 eLearning Guide - MATH

Objectives

- Students will devise a college plan.
- Students will solve problems with integers using all four operations.

Note: Beginning the week of April 14th and in alignment with our Adjusted Grading Guidelines, teachers in grades 6-12 may assign student work from the Digital Backpack eLearning guide, or from the teacher's itsLearning course, for a grade.

For Parents

- Your student will be devising a college plan and reviewing operations with integers.
- Have your student complete the tasks below.
- Videos are in Additional Resources if your students need a review on integer operations.

For Students

Devising a College Plan

- [Task 1](#): Types of Financial Aid video
- [Task 2](#): The Cost of a College Education

Integer Operations

- [Task 3](#): Integers All Operations [\(Answer Key\)](#)
- [Task 4](#): Integers: Three steps [\(Answer Key\)](#)
- [Task 5](#): Stacking Pyramid Integer Operations [\(Answer Key\)](#)

Resources

Videos - Integer Operations and Order of Operations

- [Adding and Subtracting Integers](#) Video
- [Multiplying and Dividing Integers](#) Video
- [Order of Operations](#) video

Looking for more math?

- If you can access your campus math adaptive software, please do!

Grade 8 eLearning Guide - SCIENCE

Objectives

- Students will explain how the Sun provides the energy that drives convection within the atmosphere and oceans.
- Students will explain how the uneven heating of the Earth's surface produces winds.

Note: Beginning the week of April 14th and in alignment with our Adjusted Grading Guidelines, teachers in grades 6-12 may assign student work from the Digital Backpack eLearning guide, or from the teacher's itsLearning course, for a grade.

For Parents

- Parents ask your students to explain the three ways that Thermal Energy is transferred on Earth (Conduction, Convection, Radiation)
- Challenge your students to understand the meanings of the vocabulary words that are in [The Sun's Energy Picture Vocabulary](#)
- Have your students explain how Convection Currents cause air to move in Earth's atmosphere and water to move in the Earth's oceans.

For Students

- Students complete each of the five sections of [The Sun and Convection Currents](#) on Texas Gateway for online resources. Watch each of the videos and complete the "Check Your Understanding" items.
- Students EXPLORE how thermal energy transfers in Earth's atmosphere and oceans by recording their learning in [The Sun's Energy Student Journal](#). Watch [Coriolis Effect - 1](#) [Coriolis Effect - 2](#) and complete Part II: The Coriolis Effect on page 4 of the student journal.
- Find out how [The Coriolis Effect](#) is related to the direction of the wind in Hurricanes. Try the quiz afterward to see what you have learned.
- Students read [Unequal Heating of Earth](#) and EXPLAIN their learning about the processes of energy transformation in Earth's Atmosphere and Oceans.
- Students interact with [Thermal Energy and the Water Cycle](#) EXPLORE. Students use [Where Do I Belong Data](#) to record your learning. Next, read [Thermal Energy and the Water Cycle](#) or go to [Discovery Education Link](#), select "Listen" and the article will be read to you.
- Students check your understanding of [Energy Transfer in the Atmosphere and Oceans](#)

Resources

- [The Sun's Energy Picture Vocabulary](#)
- [The Sun's Energy EXPLORE - KEY](#)
- [Water Cycle Video](#) - Discovery Education
- [Energy Transfer in the Atmosphere and Oceans Check - KEY](#)

Grade 8 eLearning Guide - LANGUAGE ARTS

Objectives

- Students will read a nonfiction article to determine the central idea.
- Students will read and analyze short stories for the theme, plot, and character development.
- Students will synthesize a theme across multiple texts and genres.

Note: Beginning the week of April 14th and in alignment with our Adjusted Grading Guidelines, teachers in grades 6-12 may assign student work from the Digital Backpack eLearning guide, or from the teacher's itslearning course, for a grade.

Essential Question

- How can one man's trash be another man's treasure?

For Parents

- If you have access to a printer, print the texts below. If you do not have printer access, students can access the texts online.
- Have your student read each text and answer the questions. *If your student needs assistance with reading, see the note about CommonLit in the "Resources" section below.*
- For the more difficult questions and the comparative task, encourage your student to discuss and brainstorm their ideas.
- If students complete writing tasks, encourage them to read what they have written aloud and revise their work for clarity.
- Complete this process for all lessons.

For Students

- **Task 1:** "The Treasure of Lemon Brown"
 - *NOTE: This is a longer text. It may take 2 days to read the story and answer the questions.*
- **Task 2:** "The Gift of the Magi"
 - *NOTE: The language in this story is challenging. If you are having trouble understanding, watch this [short film version](#) and then reread the story.*
- **Task 3:** "You Can Buy Happiness, If It's an Experience"
- **Task 4:** Reflect on Learning
- Extension Activity:
 - Read a book for 30 minutes.
 - **Log** to keep track of reading.

Resources

- **CommonLit** is offering free [parent accounts](#). Many of the reading assignments above come from CommonLit. If your student needs assistance with the readings, create an account, search for the article by title, and click the "Read Aloud" button.
- **Sora** is a free app with books and reading resources for students. Log in with SBISD credentials.
- **Noredink** is a free online writing platform. Students should start with the modules for "Body Paragraphs: Claims, Evidence, and Reasoning."

Grade 8 eLearning Guide – SOCIAL STUDIES

Objectives

- Student will analyze the causes and effects of the Reconstruction Era.
- Student will analyze primary and secondary sources and their notes to respond to the essential question.

Note: Beginning the week of April 14th, and in alignment with our Adjusted Grading Guidelines, teachers in grades 6-12 may assign student work from the Digital Backpack eLearning guide, or from the teacher's itsLearning course, for a grade.

Essential Question

- How did Reconstruction affect the lives of future generations of Americans?

For Parents

- If you have access to a printer, print the texts below. If you do not have printer access, students can access the texts online.
- Have your student read each text and answer the questions.
- For the more difficult questions, encourage your student to discuss and brainstorm their ideas.
- If students complete writing tasks, encourage them to read what they have written aloud and revise their work for clarity.
- Complete this process for all lessons.
- Students will circle back to previously read texts to complete Tasks 4-5.

For Students

- [Task 1](#): Watching Troops Leave, [Annotation Chart](#)
- [Task 2](#): Image Analysis, Reconstruction
- [Task 3](#): Analysis of Data
- [Task 4](#): The Compromise of 1877, Second Reading
- [Task 5](#): Overview of Reconstruction, Assessing Your Understanding

Resources

- [Compromise of 1877](#) (video)
- [Encyclopedia Britannica](#)
- [History.com](#)
- [BBCTeach channel](#)