

READ IOWA HISTORY

EDUCATOR MATERIALS

Environmental Impact

LESSON PLAN FOR SUPPORTING QUESTION

Why are landforms important?

2ND GRADE

**STATE HISTORICAL
SOCIETY OF IOWA**
IOWA DEPARTMENT OF CULTURAL AFFAIRS

LIBRARY
OF CONGRESS
TEACHING
WITH **PRIMARY**
SOURCES

Introduction to Read Iowa History

About Read Iowa History

Through the Library of Congress Teaching with Primary Sources grant, the State Historical Society of Iowa developed Read Iowa History — free, downloadable K-5 lesson plans to build and develop reading and critical thinking skills with primary sources in the classroom.

[Primary sources](#) (from the digital [Primary Source Sets collection](#)) are used to help students learn from multiple perspectives, develop primary source-based claims and evidence, and to interpret documents and images of the past. These lessons were developed with the Iowa Core Social Studies and Literacy Standards. Each unit includes ready-to-use source material, worksheets, educator lesson plans and assessment tools and activities. You, the educator, are encouraged to explore the unit, and use materials as you see fit for your students. You are welcome to alter lesson plans, worksheets and assessments to best align with their curriculum.

Please check out the [Primary Source Sets toolkit](#) to learn more about using primary sources in the classroom.

What's Included

Educator Materials

Sources are accompanied by an educator lesson plan. This plan includes: the unit compelling question, unit supporting question, objectives, background information, vocabulary lists or cards, a materials list and instructions. There also is a “formative assessment” to wrap up each part of the unit and to check for comprehension. You are welcome to use the activities that are suggested or create their own with the primary sources.

Student Materials

Many of the unit instructions are accompanied by a worksheet that can be copied and distributed to students as they analyze the primary source(s) to assist in their application and comprehension. These worksheets are optional but may provide a structure for students to think critically about the primary sources they are analyzing. These reproducible student worksheets are available in the [Student Materials PDF](#) (on website, below “Educator Materials”) for this topic.

Formative Assessments, Lesson Summative Assessment and Scoring Options

The formative assessments, lesson summative assessment and possible scoring options allow you to evaluate how students comprehend and apply the knowledge they learned from the individual primary source activities. Assessment instructions, example worksheet(s) and possible scoring options are located at the end of this Read Iowa History section. Reproducible assessment worksheet(s) also are available in this topic's [Student Materials PDF](#).



Courtesy of Library of Congress, Kolb Bros., "Grand Canyon, Arizona," 1913

Environmental Impact

2nd Grade

Overview

The physical landscape shapes the food people eat, the homes they build, the way they move around and the environment they live in. Students will investigate environmental history, which involves understanding relationships — and sometimes trade-offs — people make with the landscapes around them. Students also will use the perspectives of a historian, economist, geographer and political scientist to analyze images and documents.



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

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2nd Grade

How to Apply Read Iowa History Lessons to Other Primary Sources

The origin of Read Iowa History lessons stem from the [Primary Source Sets](#), which are a collection of primary sources that focus on a topic and are structured under a compelling question and multiple supporting questions (typically three). Five or six primary sources are used to address and help students answer a single supporting question. Read Iowa History takes one supporting question, the primary sources addressing that question and instructions (divided into parts) to integrate these primary sources in the classroom through different activities.

These lessons, instructions, worksheets, tools and assessment suggestions can be applied to all of the [K-5 Primary Source Sets](#).



Unit Compelling Question

The compelling question drives students to discuss, inquire and investigate the topic of a unit of understanding.

How does the way we live impact our environment?



Unit Supporting Questions

Supporting questions scaffold instruction to help students answer the compelling question. Their aim is to stimulate thought, to provoke inquiry and spark more questions. The supporting question that is highlighted above is the question that was used in this Read Iowa History. The **bolded** question below is the supporting question for this Read Iowa History unit.

1) Why are landforms important?

2) What are renewable and nonrenewable resources?

3) What impact do people have on our environment?



Read Iowa History: Environmental Impact

This Read Iowa History lesson addresses “How does the way we live impact our environment?” and “Why are landforms important?” and includes lesson plans, worksheets, suggested assessments and other tools.

Standards and Objectives

Iowa Core Social Studies Standards

No.	Standard
SS.2.2.	Generate supporting questions across the social studies disciplines related to compelling questions.
SS.2.3.	Determine if a source is primary or secondary and distinguish whether it is mostly fact or opinion.
SS.2.4.	Construct responses to compelling questions using reasoning, examples, and relevant details.
SS.2.5.	Take group or individual action to help address local, regional, and/or global problems.
SS.2.6.	Use deliberative and democratic procedures to make decisions about and act on civic problems in their classrooms.
SS.2.8.	Explain the purpose of different government function.
SS.2.9.	Develop an opinion on a decision about a local issue. (21st Century)
SS.2.11.	Evaluate choices about how to use scarce resources that involve prioritizing wants and needs.
SS.2.13.	Describe examples of the goods and services that governments provide.
SS.2.19.	Make a prediction about the future based on past related events.
SS.2.21.	Compare perspectives of people in the past to those in the present with regards to particular questions or issues.
SS.2.22.	Identify context clues and develop a reasonable idea about who created the primary or secondary source, when they created it, where they created it and why they created it.
SS.2.23.	Describe the intended and unintended consequences of using Iowa's natural resources.

Iowa Core Literacy Standards

No.	Standard
RI.2.1	Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.
RI.2.4	Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
RI.2.5	Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
RI.2.7	Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text.
W.2.2	Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.
W.2.8	Recall information from experiences or gather information from provided sources to answer a question.
SL.2.5	Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.
SL.2.2	Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.

Objectives

- I can determine how to ask questions through disciplinary literacy lens.
- I can identify a primary source.
- I can analyze images related to landforms.
- I can create a class landform map.

Background Essay

Utilize this background essay, in whole or in parts, with students to provide further context and understanding about why landforms are important and how people impact their environment. You can read it aloud to students, utilize excerpts and introduce the vocabulary words. The essay is also referenced in parts of this Read Iowa History to assist students in their interpretation and analysis of primary sources.

“The land was ours before we were the land’s” wrote the poet Robert Frost. Since the earliest days of humans on Earth, people have adapted to the physical landscape around them. It shapes the food they eat, the homes they build, the way they move around and the environment they live in. Studying environmental history involves understanding relationships — and sometimes trade-offs — that people make with the landscapes around them.

The land itself is the most important factor in human settlement. Do we live in the mountains, on the **plains**, in the **forest**, on a river or on the beach? Or on an island? Rivers and oceans were the first human highways. Ships moved people and goods faster and easier than people and animals on land could. Mountains and **forests** impeded transportation, which could have been a problem or a benefit if it protected residents from outsiders. Ocean-front housing could provide a mild climate or subject inhabitants to brutal storms. Iowans are blessed with incredibly rich soil and rainfall while **desert** people must be creative to grow food or raise livestock. Where we live has a major impact on the lifestyle of any people.

The air humans breathe is also a factor in our environment. For most of human history, the quality of the air has not been impacted by human activity, but with the Industrial Revolution and a demand for energy from fossil fuels like coal or gasoline, people have polluted the air with carbon products that can create a variety of challenges, like smog or acid rain. Oxygen-depleting pollutants have reconfigured the layers of air surrounding the earth leading to warming temperatures and evolving rainfall patterns.

Water also is an important environmental factor. When water is in short supply, efforts sometimes divert rivers for agriculture or store it behind massive dams to create hydroelectric power. Fertilizer run-off from farm fields seeps into underwater water reserves or flows into rivers and streams altering natural balances.

Some energy sources like wind power or sun light are termed renewable energy sources because using them does not decrease their availability. Fuels derived from plant matter like wood, natural gas, oil or coal are nonrenewable sources because they can be depleted. For the most part, fossil fuels present the greatest environmental challenges because they increase the amount of carbon dioxide in the air. Nuclear fuels pose the danger of increased radioactivity when a reactor malfunctions and nuclear wastes create a problem for disposal. When nations were conducting nuclear tests in the atmosphere, radioactive drift traveled far beyond the test site to threaten resources thousands of miles away.

Environmental protection challenges a world divided into nation states because human activity can impact land, the air and water far beyond the site where the activity occurs. Keeping our world safe is a truly world challenge.

Vocabulary Words

- Landform
- Desert
- Plains
- Forest
- Valley
- Canyon
- Plateau

Source, Observe, Contextualize and Corroborate (SOCC)



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

This pre-lesson activity will illustrate a tool students can use to help them analyze primary sources in later parts of this Read Iowa History. The Source, Observe, Contextualize and Corroborate (SOCC) strategy provides a structured way to approach analysis with elementary students. This strategy is explained more by the instructions below and with the posters to introduce students to the concept.

Instructions

1 SOCC Strategy: The source, observe, contextualize and corroborate strategy will be applied to primary sources later on in this Read Iowa History. The [SOCC posters](#) will be part of later activities, but this pre-lesson activity could serve as a way to introduce students to core elements of the SOCC strategy and the information included on the posters.

2 The SOCC steps to analyze a primary source:

- 2a** First, read the [source](#). Students should be asked what they notice about the source.
- 2b** Next, the class will [observe](#) and take a look at what they see. It can be helpful to allow partners to look at the image while discussing what they see.
- 2c** The third step is to [contextualize](#). Students will use their prior knowledge and the author's clues to infer who, what, when and where the primary source indicates. Students will use their prior knowledge and the author's clues to infer who, what, when and where the primary source indicates.
- 2d** Considering the disciplinary perspectives (historian, geographer, economist and political scientist) discussed in steps 1-4, ask students what questions they have? This is the [corroborate](#) part. They will ask questions and use other sources to research and find evidence related to the image.

Materials

- [SOCC posters \(4\)](#)

This is one of the SOCC posters included to assist students with the Source, Observe, Contextualize and Corroborate technique in analyzing primary sources. A larger, printable version of this poster is available in the Student Materials PDF.

Source

Use available citation information to infer something about who, what, when and/or where is represented in the primary source.

Consider why someone created this primary source.

This is one of the SOCC posters included to assist students with the Source, Observe, Contextualize and Corroborate technique in analyzing primary sources. A larger, printable version of this poster is available in the Student Materials PDF.

Observe

**What do you see in the
primary source?**

This is one of the SOCC posters included to assist students with the Source, Observe, Contextualize and Corroborate technique in analyzing primary sources. A larger, printable version of this poster is available in the Student Materials PDF.

Contextualize

Use your prior knowledge and author's clues to infer who, what, when and/or where (something) about the primary source.

This is one of the SOCC posters included to assist students with the Source, Observe, Contextualize and Corroborate technique in analyzing primary sources. A larger, printable version of this poster is available in the Student Materials PDF.

Corroborate

Generate questions and use other sources to research and find evidence related to the primary source.

Think Like... Cards & Question Formulation Technique



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

This pre-lesson activity will illustrate tools students can use to help them analyze primary sources in later parts of Read Iowa History. One tool is the [Think Like... cards](#), which students use to identify disciplinary literacy perspectives, key vocabulary and questions asked by a historian, geographer, economist and political scientist. To prepare students to analyze images and documents, you can use this activity to remind them that the impact of one's experience shapes their perspective on different topics, such as how people impact the environment.

The other tool is the [Question Formulation Technique \(QFT\)](#), which was created by the Right Question Institute. The steps of the QFT are designed to stimulate three types of thinking: divergent thinking, convergent thinking and metacognitive thinking.

Instructions

- 1 Think Like... Cards:** Before class, you will need to print off the Think Like... cards that read: geographer, economist, historian and political scientist. You will use the cards during class to represent different disciplines.
- Distribute the [Think Like... worksheet](#) to each student. Create four boxes on the whiteboard or chart paper that you will fill out with words and pictures as students answer each discipline's questions.
- Explain to students that they are going to look at social studies by investigating different perspectives. You will hold up each card and ask questions from each discipline while students consider key things that match the discipline. They will draw in the boxes on the worksheet to help them remember each one.
- With each card, discuss what the questions have in common, such as time, perspective and cause/effect. Record responses. After students have finished filling out their worksheets, pair them together so they can share about the four disciplines by using their answers.
- 5 Question Formulation Technique (QFT):** This pre-lesson activity is meant to encourage students to ask questions, which is an important step in them taking ownership of their learning. Prior to class, it is recommended you watch the 12-minute [QFT Instruction Video](#). In the video, a fourth-grade teacher uses QFT to learn more about what her students know or do not know about fractions.

Materials

- [Think Like... cards](#)
- [Think Like... worksheet](#)
- Chart paper or whiteboard
- [QFT Instruction Video](#)
- [Sim City timelapse video](#)

Instructions continued on next page

Think Like... Cards & Question Formulation Technique

Instructions continued

- 6 Have the class watch the [two-minute Sim City timelapse video](#). Use the QFT strategy to ask questions and assess the video with students. Follow the steps below to assist students in their analysis.
 - Write as many student questions as you can on the board or on chart paper.
 - Do not stop to discuss, judge or answer any questions.
 - Write down every question exactly as stated, change any statements to questions.
 - Sort and prioritize questions.

- 7 After sharing the prioritized questions, discuss with students what social studies discipline that the question falls under. Use the [Think Like... cards](#) to assist with the inquiry. Post questions on chart paper for students to answer as they learn more.

Think Like...Cards

This is are the State Historical Society of Iowa's Think Like...Cards for the pre-lesson activity. The cards included focus on the perspective of a geographer, economist, political scientist and historian. A larger, printable version made for reproduction is available in the Student Materials PDF.

Think Like a Geographer

A person who studies the environment and how it impacts people.

- Describe details about this location. What do you notice that can help figure out where this place is located? What is unique?
- Why would people move to or leave this place?
- How would people travel to this location? How has traveling to this location changed over time?
- Describe details about people who live here and how they impact the location? How does the location impact the people who live there?

Think Like an Economist

A person who studies the way people make decisions about money.

- Describe the people in relation to the location. What jobs or occupations do you think people had? Why do you say that? How do you think they met their needs and wants?
- How do decisions made by individuals affect themselves and the economy?
- How do decisions made by businesses affect people?
- How do jobs impact people and the economy? Describe what happens when jobs are lost.

Think Like...Cards

This is are the State Historical Society of Iowa's Think Like...Cards for the pre-lesson activity. The cards included focus on the perspective of a geographer, economist, political scientist and historian. A larger, printable version made for reproduction is available in the Student Materials PDF.

Think Like a Historian

A person who explains changes that happened in the past.

- What happened in the past? Why is it important to understand what has happened in the past?
- How did past decisions or actions significantly transform people's lives?
- What has changed or stayed the same over time? Who benefited from the change? Why? Who did not benefit? Why?
- Who or what made changes happen? Who supported the change? Who didn't? Why?

Think Like a Political Scientist

A person who studies governments and how they work.

- What problems might people have faced in this society?
- What rights do people have? What rights are people missing?
- What might lead to people being treated fairly? What might lead to people being treated unfairly?
- What information can be gathered about trends at this location or time period that might change or impact the future?

Think Like... Worksheet

This is an example worksheet that corresponds with the instructions in the pre-lesson activity to assist students in recognizing the perspectives of varying disciplines. This version of the worksheet is for you, the educator, to fill out, add notes and utilize. A larger, printable version made for reproduction is available in the Student Materials PDF.



Think Like...

<p>A Geographer</p>	<p>A Historian</p>
<p>An Economist</p>	<p>A Political Scientist</p>

"America, Its Soil," 1946



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

Students will learn how to analyze an image using the Source, Observe, Contextualize and Corroborate (SOCC) strategy featured in the [pre-lesson activity](#). This illustration provides the opportunity for students to start thinking about and asking questions about landforms, natural resources and where they are in the United States.

Source Background

This 1946 illustration was created by artist Paul Sample, and is entitled, "America, Its Soil." The image shows scenes of land use and farming superimposed on a map of the United States.

Instructions

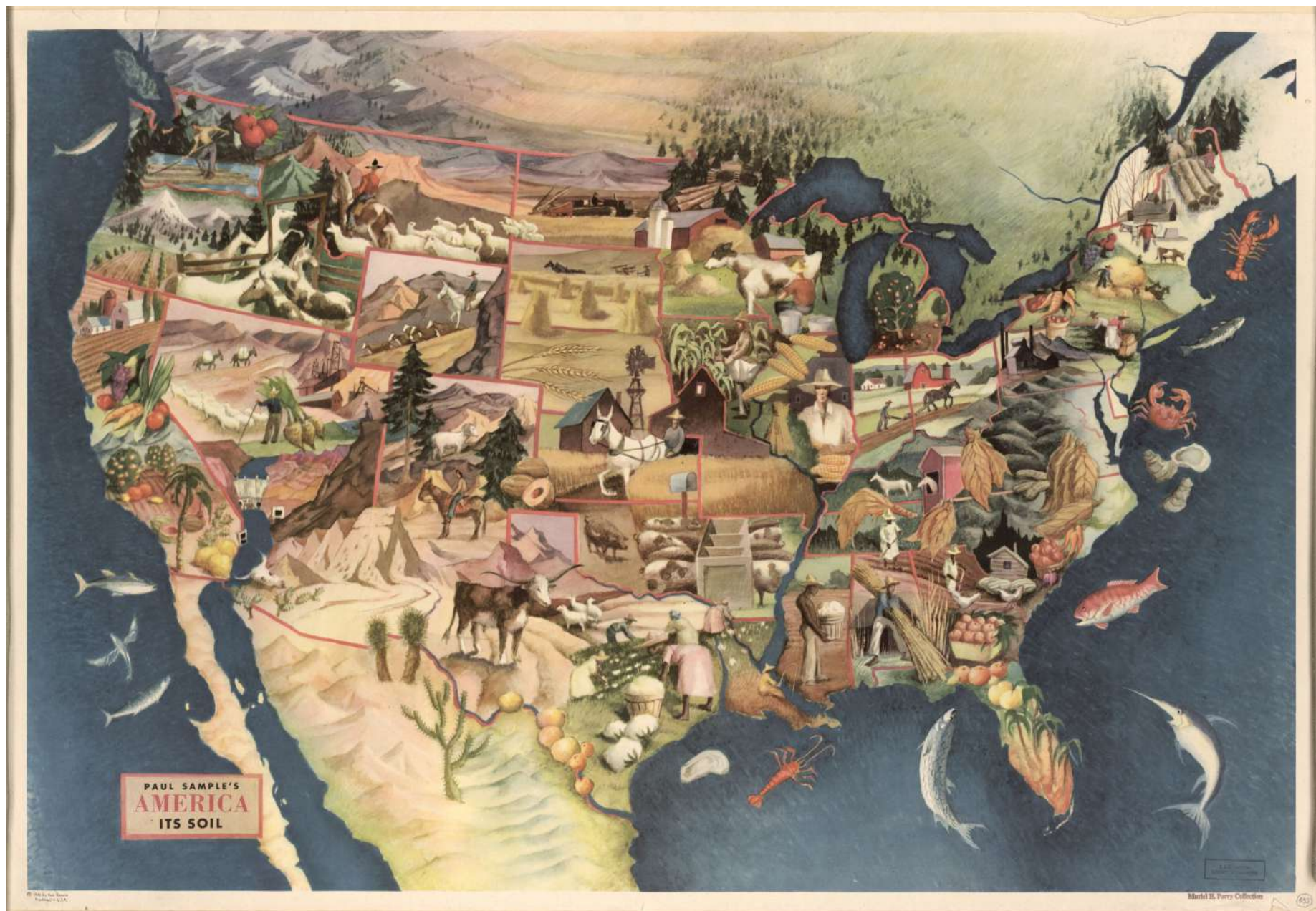
- 1 Display the [SOCC posters](#) on a bulletin board or in some location that all students can view as each step is introduced. To help students analyze the image, it is suggested to have the class watch this [Kid Citizen video about identifying and using primary sources](#).
- 2 Sort students into pairs. You will give each pair one copy of the primary source, ["America, Its Soil."](#) This is so they can view the image while modeling how to source, observe, contextualize and corroborate the primary source.
- 3 Begin with **source**. Use the posters to guide students through the four steps. After **contextualize**, students will share responses and you will record their answers on the ["Analyze an Image" worksheet](#).
- 4 **Formative Assessment:** Students will write questions on Post-it Notes. They will prioritize their questions by questions that will help answer the supporting question: What are landforms? Share the priority questions and post them on or around a copy of the ["America, Its Soil" image](#). Students will answer their questions as they learn more throughout this unit. Consider displaying these on a bulletin board or on chart paper so students can refer back to answer them throughout their learning.

Materials

- ["America, Its Soil" image](#)
- [SOCC posters](#)
- ["Analyze an Image" worksheet](#)
- Post-it Notes
- **Suggested video:** [Kid Citizen video](#)

"America, Its Soil," 1946

PART 1



Courtesy of Library of Congress, Sample, Paul, "America, Its Soil," 1946

“America, Its Soil,” 1946

This is an example worksheet that corresponds with the instructions in Part 1 to analyze the illustration of “America, Its Soil.” This version of the worksheet is for you, the educator, to fill out, add notes and utilize. A version of this worksheet is available for reproduction in this topic’s Student Materials PDF.



Analyze an Image

<p>What do you think is happening in the image?</p>	
<p>Are there people in the image? Who are they?</p>	
<p>When do you think the image was created?</p>	
<p>Where is the image representing?</p>	
<p>Why do you think someone drew this image?</p>	
<p>What questions do you have about the image?</p>	

What Impacts the Development of a Community?



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

Students will write about what things impact their community. This will give you an idea of the knowledge students possess before learning anything related to the compelling question. The class will use the Question Formulation Technique (QFT) strategy used in [Pre-Lesson Activity 2](#). Students also will consider what perspective (historian, economist, geographer or political scientist) relates most to their questions and they will prioritize them by most important questions that they will work to answer.

Instructions

- 1 Students will perform a quick write activity in a notebook or on a piece of paper with their initial thoughts to the question: How can I have an impact on my community?
- 2 Have students apply the [Question Formulation Technique \(QFT\) strategy](#) to the primary source from Part 1, [“America, Its Soil.”](#) Display the image for students to view. Follow the steps from [Pre-Lesson Activity 2](#) to assist students in their analysis of the image.
- 3 After sharing the prioritized questions, discuss with students what social studies discipline that the question falls under. Use the [Think Like... cards](#) to assist with the inquiry. Post questions on chart paper for students to answer as they learn more.
- 4 **Formative Assessment:** Students can post more priority questions on the chart paper to answer as they learn more throughout this Read Iowa History unit. Consider displaying these on a bulletin board or on chart paper so students can refer back to answer them.

Materials

- Notebooks or pieces of paper
- [Think Like... cards](#)
- Chart paper
- [“America, Its Soil” image](#)

Visualizing Landforms



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

Students will analyze primary sources in small groups to visualize the landform definitions. Since there are six primary sources, use this opportunity to jigsaw the images and provide opportunities for students to collaborate. Students will act as experts on their images to share to the whole group. They will connect their images to the [“American, Its Soil” illustration from Part 1](#) to make connections to where the landforms are located.

Source Backgrounds

Source 1: This print shows a wilderness scene with a bear at the edge of a stream and waterfalls and mountains in the background. It is an image of a mountain pass in the Sierra Nevada Mountain Range near Lake Tahoe. This pass was a point on the Carson Trail during the California Gold Rush.

Source 2: This image captures the Mississippi River Valley near Clinton, Iowa, in 1899.

Source 3: This image, taken in 1901, shows a bird’s-eye view of the Des Moines River in Iowa.

Source 4: This 1913 image shows the Grand Canyon. A small boat can be seen floating on the Colorado River.

Source 5: This image, taken in 1993, shows Zion National Park in Washington County, Utah.

Source 6: This 2016 image shows a field of sweet corn near Marengo in Iowa County, Iowa.

Instructions

- 1 Divide students into groups (three or four students per group). Each group will get one of the six primary source images. They will have one [“Analyze an Image” worksheet](#) per group.
- 2 Students will use the [SOCC technique](#) to analyze their images. They will use the worksheet to guide their inquiry.
- 3 Have students consider the disciplinary perspectives from the [Think Like... cards](#). Ask students what questions they would have about their image specific to the individual disciplines.
- 4 Students will write three to four priority questions (QFT technique) on Post-it Notes or you will record their questions. Use the [SOCC posters](#) to guide student questions.

Instructions continued on next page

Materials

- Six primary sources
- [“Analyze an Image” worksheet](#)
- [Think Like... cards](#)
- [SOCC posters](#)
- Post-it Notes
- [“America, Its Soil” image](#)
- String

Visualizing Landforms

Instructions continued

- 5 Return to the whole class. Students will sit with their group, along with their landform image and worksheet. Each group will share their landform image and questions to the class. Stick Post-it Notes to the image and then determine where it is located on the [“America, Its Soil” image from Part 1](#).
- 6 Use a string to connect the map to the images. At this time, introduce and post landform definitions from the vocabulary cards.
- 7 **Formative Assessment:** Share the images and questions on the Post-it Notes with the entire class. Consider displaying these on a bulletin board or on chart paper so students can refer back to answer them.



THE MOUNTAIN PASS.
SIERRA NEVADA.



Courtesy of Library of Congress, "Valley of the Mississippi, near Clinton, Iowa," Detroit Publishing Co., 1899



Courtesy of Library of Congress, "Up the Des Moines Valley, From C. & N. W. Ry. viaduct," Detroit Publishing Co., 1901



Courtesy of Library of Congress, Kolb Bros., "Grand Canyon, Arizona," 1913



Courtesy of Library of Congress, Grogan, Brian C., "5. View from Smithsonian Butte facing north along old road - Zion National Park Roads & Bridges, Springdale, Washington County, UT," 1993



Courtesy of Library of Congress, Highsmith, Carol. M., "Vast field of sweet corn near Marengo in Iowa County, Iowa," 8 August 2016

Analyze an Image Worksheet

This is an example worksheet that corresponds with the instructions in Part 3 to analyze the images of landforms. This version of the worksheet is for you, the educator, to fill out, add notes and utilize. A version of this worksheet is available for reproduction in this topic's Student Materials PDF.



Analyze an Image

<p>What do you think is happening in the image?</p>	
<p>Are there people in the image? Who are they?</p>	
<p>When do you think the image was created?</p>	
<p>Where is the image representing?</p>	
<p>Why do you think someone drew this image?</p>	
<p>What questions do you have about the image?</p>	

Creating a U.S. Map with Landforms



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Overview

Students will design and review landforms. They will make a 3D model of the U.S. landforms. The land itself is the most important factor in human settlement. Do lowans live in the mountains, on the plains, in the forest, on a river or on the beach? Rivers and oceans were the first human highways. Ships moved people and goods faster and easier than people and animals on land could. Mountains and forests impeded transportation, which could have been a problem or a benefit if it protected residents from outsiders. Ocean-front housing could provide a mild climate or subject inhabitants to brutal storms. lowans are blessed with incredibly rich soil and rainfall while desert people must be creative to grow food or raise livestock. Where people live has a major impact on the lifestyle of any people. This activity will provide students the opportunity to create a map to reflect what they have learned about why landforms are important.

Instructions

- 1 To assist students in designing landforms, multiple suggested resources are listed in the materials box. As you begin this lesson, make sure students take note of their previously generated questions to see if any can be answered.
- 2 Introduce students to the concept of a landform map by letting them view the [U.S. relief location map](#).
- 3 Have students break up into small groups. Each group will create a U.S. relief map showing different landforms: plains, grasslands, mountains, deserts, plateaus, forests and oceans. They can use copies of the original relief map to make their group map to place their 3D landforms.
- 4 Students will use construction paper and/or other materials to make the landforms, and then tape them onto the map to show a visual representation of landforms on the map.
- 5 Hang their maps on a bulletin board, so it can be a visual representation as this module continues to unfold. You could also use [student-analyzed images from Part 3](#) to tape on the blank map, too.
- 6 **Formative Assessment:** Observe how students create landforms and decide placement of them on the U.S. map. Have students complete the [worksheet, "Check for Understanding - Landforms."](#)

Instructions continued on next page

Materials

- [U.S. relief location map](#)
- ["Checking for Understanding - Landforms" worksheet](#)
- Construction paper
- Tape and/or glue stick
- **Suggested books:**
Looking at Landforms by Ellen Mitten, *Introducing Landforms* by Bobbie Kalman or *A True Book: U.S. Landforms* by Dana Meachen
- **Suggested videos:**
[Landforms Learn 360](#) (accessible through AEA) or [Landforms, Hey!: Crash Course for Kids](#)

Creating a U.S. Map with Landforms

Instructions continued

- 7 Optional Formative Assessment:** Print the [landform vocabulary cards](#) for students to glue in their worksheet's chart or in a chart they create themselves. Print the primary sources used in this Read Iowa History unit (small size) and give to students to glue in or draw for the question: What is (insert landform)? Then, students will explain why the landform is important.

United States Relief Location Map

This version of the United States Relief Location Map is for you, the educator, to fill out, add notes and utilize. A larger version of this map is available for reproduction in this topic's Student Materials PDF.



Creating a U.S. Map with Landforms

This is an example worksheet that corresponds with the formative assessment instructions in Part 4. This version of the worksheet is for you, the educator, to fill out, add notes and utilize. A version of this worksheet is available for reproduction in this topic's Student Materials PDF.

Check for Understanding - Landforms

Landform	Definition	What does it look like?	Why is it important?
Desert			
Plains			
Forest			
Valley			
Canyon			
Plateau			

Lesson Summative Assessment



Unit Compelling Question

How does the way we live impact our environment?



Unit Supporting Question

Why are landforms important?

Assessment Instructions

- 1 Students will brainstorm their own keywords or use keyword bank (landforms types, such as plains, forests, mountains, deserts, plateaus and canyons) included on the [lesson summative assessment worksheet](#).
- 2 Students will answer the supporting question: Why are landforms important? They will need to explain with at least three examples how landforms are important.
- 3 Another option or an [extension of the lesson summative assessment](#) is to have students include a picture of the finished class map and explain how each landform is important verbally to you or through a digital platform.

Assessment Scoring Options

Proficient	Shows understanding of landforms and explains why they are important. Using at least three examples.
Developing	Some accurate and some inaccurate ideas about landforms and their importance with two examples.
Beginning	Unable to write/draw/explain any ideas in the given time and/or ideas are very inaccurate.

Lesson Summative Assessment

This is an example worksheet that corresponds with the lesson summative assessment. This version of the worksheet is for you, the educator, to fill out, add notes and utilize. A version of this worksheet is available for reproduction in this topic's Student Materials PDF.

Word Bank

landforms plains forests mountains deserts plateaus canyons

Supporting Question: *Why are landforms important?*

Proficient: Shows understanding of landforms and explains why they are important. Using at least three examples.

Developing: Some accurate and some inaccurate ideas about landforms and their importance with two examples.

Beginning: Unable to write/draw/explain any ideas in the given time and/or ideas are very inaccurate.

Example Lesson Summative Assessment with Class Map

This is an example lesson summative assessment completed with a class map image. It also includes a possible example of what a student might say or write to assist you in your assessment.

Word Bank

landforms plains forests mountains deserts plateaus canyons

Supporting Question: *Why are landforms important?*



Example Student Response:

There are many landforms on the Earth like the mountains, plains, forests and plateaus. Landforms provide homes to living things, natural resources and beauty. The plains are where many farms are located which gives us food. The plains are good for building houses, roads and railroads because of the flat area. Plateaus have lots of minerals. Mountains are important because many rivers begin from them. Rivers are important plants, animals and people. Forests provide trees that we need to live and breathe, and use for wood to build things.



Landform



Desert



Plains



Forest

Plains

A large area of flat land.

Landform

A natural feature of a land surface.

Forest

Wooded area of trees and other plants.

Desert

An area of dry land with usually with few plants.



Valley



Canyon



Plateau



Valley

A low area between hills or mountains.

Plateau

Elevated landform that rises above the surrounding area and has a flat top.

Canyon

A deep valley with steep sides, often with a stream flowing through it.

Additional Environmental Impact Resources for Educators

[Environmental Impact Primary Source Set](#)

This is a digital collection of primary and secondary sources about landforms and how people impact the environment. This Read Iowa History unit is based on this primary source set.

[U.S. National Parks for Kids - Landforms](#)

This website allows students to use an interactive map to research national parks throughout the country. This specific webpage focuses on landforms, such as mountain ranges, lakes and rivers.

[What is a primary source? \(LOC Kid Citizen\)](#)

This website provides a brief introductory video to help children learn about what a primary source is and explore a few examples.

[Using the Question Formulation Technique \(QFT\) for Formative Assessment](#)

This video was created by the The Right Question Institute and showcases a 4th-grade teacher in New Hampshire using the Question Formulation Technique (QFT) to learn more about what her students know or did not know about fractions.

[Learn 360 - Landforms](#)

This video is available through your local AEA. The educational video helps students learn about the different landforms in the United States.

Introducing Landforms by Bobbie Kalman

This book explains to young children why the land on Earth has different shapes in different places. Photographs and illustrations show examples of continents, mountains, valleys, plains and caves, as well as the forests, animals and water that may be found on each landform.

Looking at Landforms by Ellen Mitten

This book encourages young readers to learn about various landforms through text and photos.

U.S. Landforms (TrueBooks: US Regions) by Dana Meachen Rau

This book encourages readers to learn about the nation's deserts, mountains and plains. There are numerous photographs of famous landmarks, such as California's Death Valley and the hot water geysers of Yellowstone National Park.