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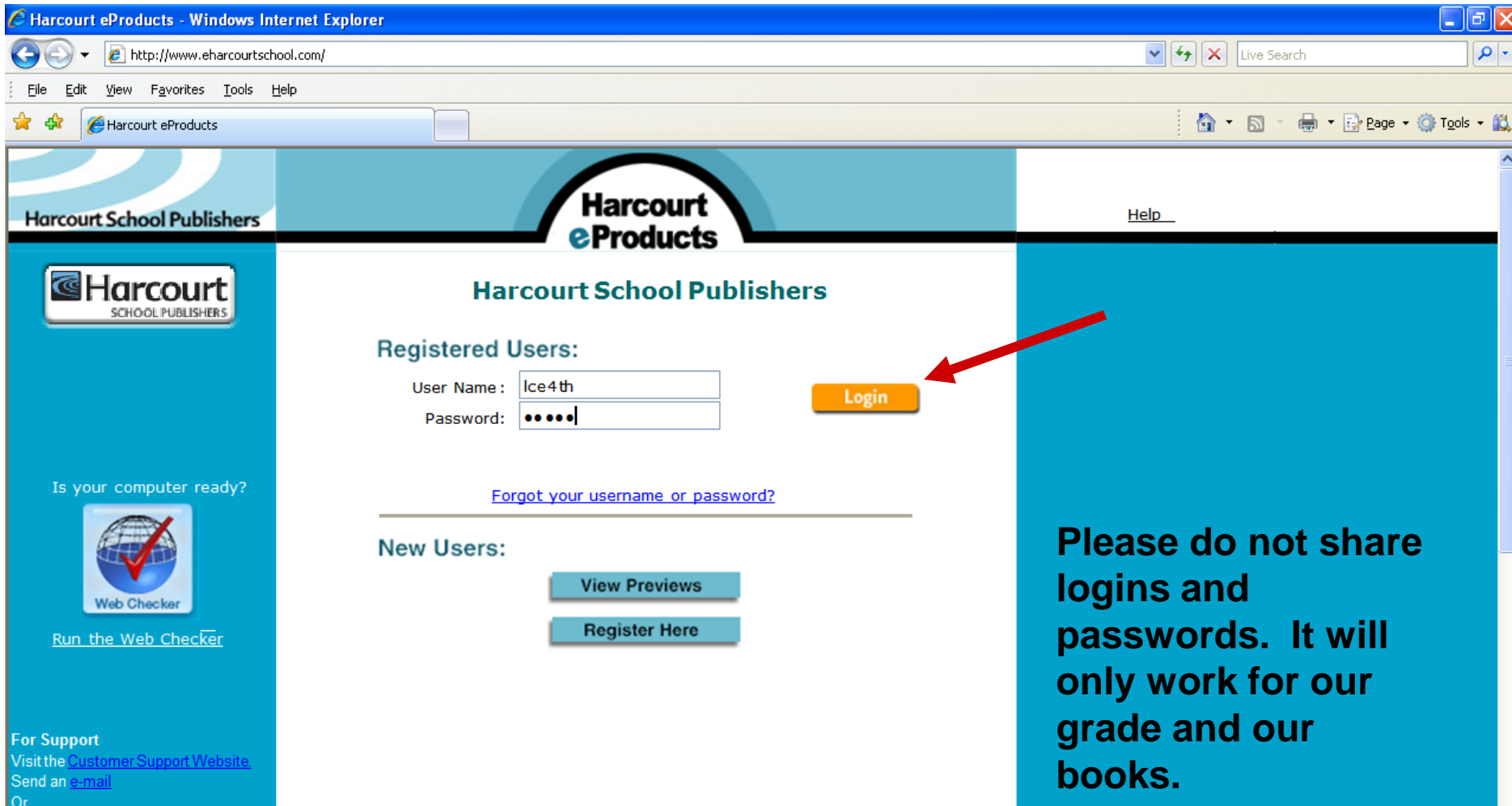
Math & Social Studies

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*login is NOT case sensitive, password IS case sensitive*



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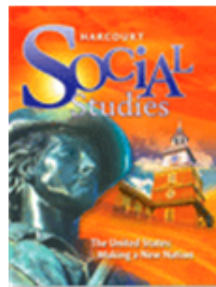
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Select a unit or chapter Select a lesson Go!

Contents Book Pages

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**Contents** **Book Pages**



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The Table of Contents**



- ▶ Front Matter
- ▶ Chapter 1: Place Value and Number Sense
- ▶ Chapter 2: Add and Subtract Whole Numbers
- ▶ Unit 1: Wrap Up
- ▶ Chapter 3: Collect and Organize Data

Done

- Select a unit or chapter
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  - Chapter 1: Place Value and Number Sense
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  - Unit 1: Wrap Up
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  - Chapter 12: Lines, Rays, and Angles
  - Chapter 13: Plane and Solid Figures
  - Chapter 14: Understand Fractions
  - Chapter 15: Add and Subtract Fractions and Mixed Numbers
  - Unit 6: Wrap Up
  - Chapter 16: Customary and Metric Measurements
  - Chapter 17: Perimeter and Area of Plane Figures
  - Unit 7: Wrap Up
  - Chapter 18: Understand Decimals
  - Chapter 19: Add and Subtract Decimals
  - Chapter 20: Multiply Decimals by Whole Numbers
  - Chapter 21: Divide Decimals by Whole Numbers

- ▶ Front Matter
- ▶ Chapter 1: Place Value and Number Sense
- ▶ Chapter 2: Add and Subtract Whole Numbers
- ▶ Unit 1: Wrap Up
- ▶ Chapter 3: Collect and Organize Data


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**Grade 4**

Select a lesson

Pages

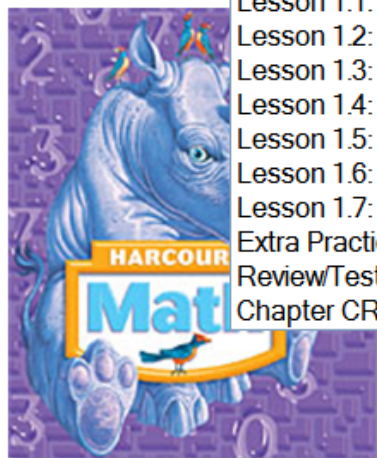


**Once you select a chapter,  
You can select a lesson**

Contents

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- Chapter Opener
- Select a lesson
- Chapter Opener
- Check What You Know
- Lesson 1.1: Understand Place Value
- Lesson 1.2: Place Value Through Hundred Thousands
- Lesson 1.3: Place Value Through Millions
- Lesson 1.4: Benchmark Numbers
- Lesson 1.5: Problem Solving Skill: Use a Graph
- Lesson 1.6: Place Value: Compare Numbers
- Lesson 1.7: Place Value: Order Numbers
- Extra Practice
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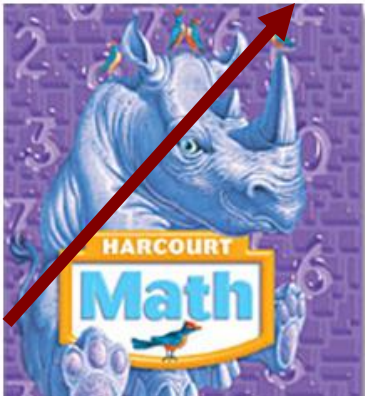
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Chapter 1: Place Value and Number Sense Chapter Opener **Go!**

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Remember to hit "Go"

**Intervention**

[Problem Solving](#)  
[45 Line Segments and Angles](#)

**Show Me**

[Classify and Measure Angles](#)  
[Line Relationships](#)

**Practice On Your Own**

[Classify and Measure Angles](#)  
[Line Relationships](#)

**Activities**

[Geometry-](#)

LESSON  
**12.2**

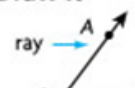
# Measure and Classify Angles

**M4M2.a.** Use tools, such as a protractor or angle ruler, and other methods, such as paper folding or drawing a diagonal in a square, to measure angles, also **M4P5**.

**Learn**

**FROM EVERY ANGLE** Two rays with the same endpoint form an **angle**. The endpoint is called the **vertex**.

**Draw It**



**Read It**

angle  $ABC$   
angle  $CBA$

**Write It**

$\angle ABC$   
 $\angle CBA$   
 $\angle B$

**The Best Part!**

is always the middle letter  
er that names the angle.

**Quick Review**

List the factors for each product.

- 1. 14      2. 25
- 3. 27      4. 12
- 5. 29

**VOCABULARY**

- angle
- vertex
- protractor
- degree ( $^\circ$ )
- right angle
- acute angle
- obtuse angle
- straight angle

# Examples: Interventions and “Show Me”

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**Harcourt Math** Strategy 17: Draw a Diagram

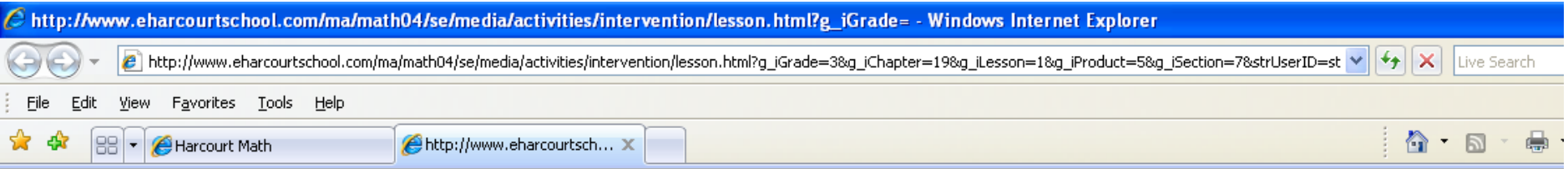
In this lesson you will learn about the problem solving strategy *draw a diagram.*

**At your child's own pace!**

← Show Me Try These Practice on Your Own →

Done Internet

# Examples a “Show Me”



## Harcourt Math Line Segments and Angles

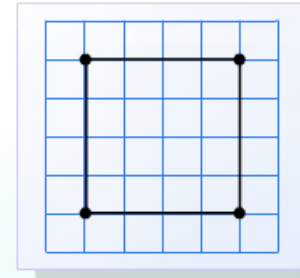
A plane figure is drawn by connecting points on grid paper.  
The sides of this figure are made up of line segments.

The following terms can help you describe figures in geometry.

A **line** is straight. It continues in both directions. It does not end.



A **point** is an exact position or location.



Show Me

Try These

Practice on Your Own



**Intervention**

[Problem Solving](#)

[45 Line Segments and Angles](#)

---

**Show Me**

[Classify and Measure Angles](#)

[Line Relationships](#)

**LESSON 2**

# Measure and Classify Angles

**Learn**

**FROM EVERY ANGLE** Two rays with the same endpoint form an **angle**. The endpoint is called the **vertex**.

**Quick Review**

List the factors for each product.

1. 14	2. 25
3. 27	4. 12
5. 29	

**Practice On Your Own**

[Classify and Measure Angles](#)

[Line Relationships](#)

---

**Activities**

[Geometry-](#)

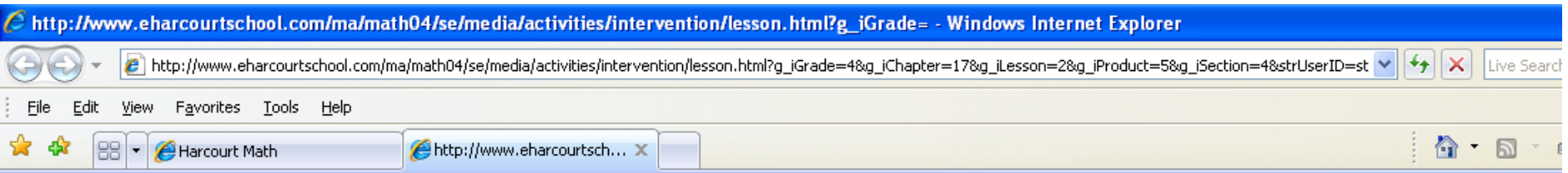
<p><b>Draw It</b></p>	<p><b>Read It</b></p> <p>angle ABC angle CBA angle B</p>	<p><b>Write It</b></p> <p><math>\angle ABC</math> <math>\angle CBA</math> <math>\angle B</math></p>
-----------------------	--	---

**VOCABULARY**

- angle
- vertex
- protractor
- degree ( $^{\circ}$ )


On-line Practices, Drills, Activities, and Games!

# Example of a Practice Exercise

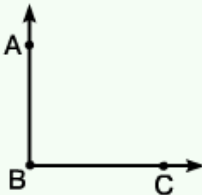


**Harcourt Math** Classify and Measure Angles

**Practice On Your Own** Question 1 of 8

1.  Use the picture. Click your answer.

Classify the angle.



A acute

B obtuse

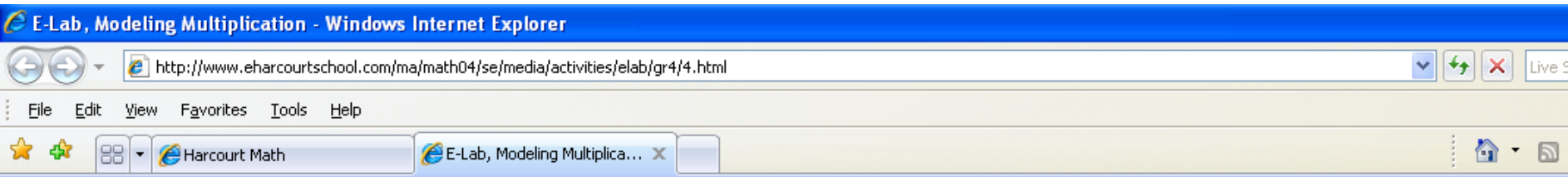
C right

D straight

**Done**

[Practice on Your Own](#)

# Example of Interactive Activity



You will need to print a [recording sheet](#) to do this activity.

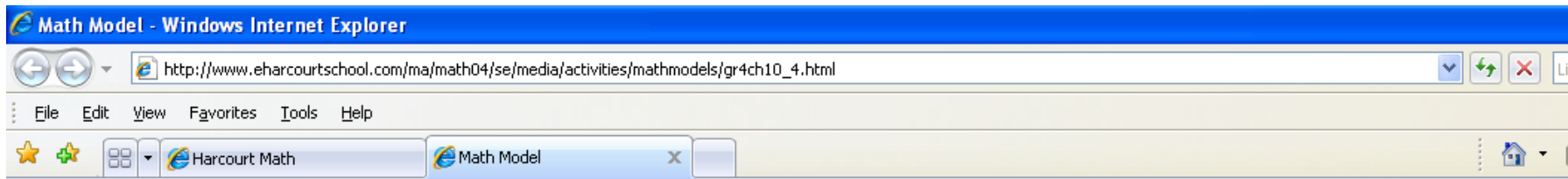
Games and problems so that students can gain practice in a fun way. They receive immediate feedback!

Click the arrows until one factor appears across the top.  
Select the other factor from the left column.

1	0	1	0	1	0	1	0	1	0	1
2	8	%	2	8	%	2	8	%	2	8
3	7	%	3	7	%	3	7	%	3	7
4	6	%	4	6	%	4	6	%	4	6
5	3	%	5	3	%	5	3	%	5	3
6	4	%	6	4	%	6	4	%	6	4
7	5	%	7	5	%	7	5	%	7	5
8	2	%	8	2	%	8	2	%	8	2
9	1	%	9	1	%	9	1	%	9	1

New Problem

# Example of Practice Problems



**Multiply.  $4 \times 185 = \blacksquare$**

$$\begin{array}{r} 2 \\ 185 \\ \times 4 \\ \hline 0 \end{array}$$

Multiply the ones.  
 $4 \times 5$  ones = 20 ones  
Regroup 20 ones as 2 tens.

Next ▶



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NOTE: The vertex is always the middle letter or the single letter that names the angle.

- right angle
- acute angle
- obtuse angle
- straight angle
- diagonal line

A **protractor** is a tool used to measure the size of an angle. The unit used for measuring angles is a **degree** (°). The scale on a protractor is marked from 0° to 180°.



**Activity MATERIALS:** protractor  
Use a protractor to measure angle ABC.

**STEP 1**

Place the center of the protractor on the vertex of the angle.



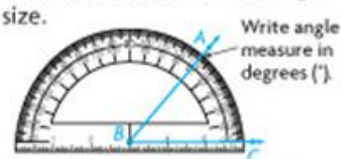
**STEP 2**

Line up the center point and the 0° mark on the protractor with one ray of the angle.



**STEP 3**

Read the measure of the angle where the other ray passes through the scale. Use the scale that makes sense for the angle size.



**Learn Vocabulary!**

**Activities**

[Geometry- Vocabulary Match](#)

**Vocabulary**

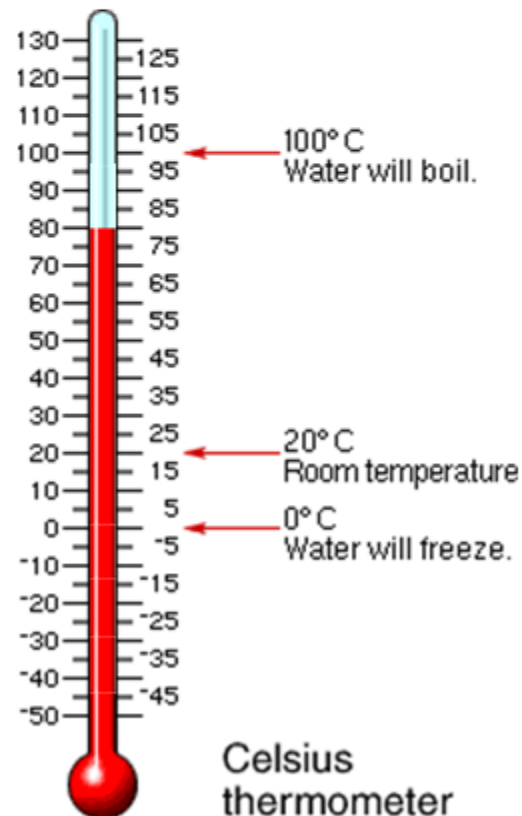
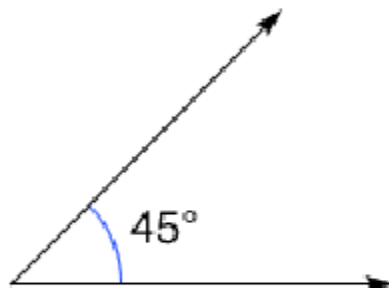
- [GA] point
- [GA] ray
- [GA] line
- [GA] plane
- [GA] line segment
- angle
- vertex
- [GA] protractor
- [GA] degree
- right angle
- acute angle

## degree (°)



The unit used for measuring [angles](#) and temperatures.

### Examples:



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**Links for additional definitions**  
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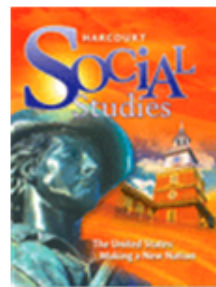
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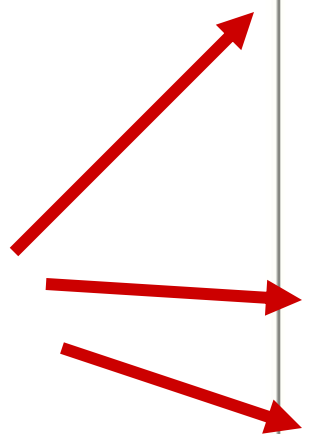
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-  **Unit 1** **The Land and Early People**
-  **Unit 2** **Cultures Meet**
-  **Unit 3** **The Thirteen Colonies**
-  **Unit 4** **The American Revolution**
-  **Unit 5** **A Growing Nation**



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Play

## Apply

Read the paragraphs, and answer the questions.

### Living History

It is amazing to think that Americans today have some things in common with early Americans. Much has changed in the thousands of years since people first settled the Americas. Yet in some ways, history lives on.

Long ago, beans and corn were important foods in many parts of the Americas. They are important foods today, too. In fact, they have been on dinner tables for thousands of years. Many early Americans also enjoyed popcorn, just as many people do

Many early Americans used canoes and kayaks to travel down rivers and across lakes. In fact, canoe and kayak both come from Native American words. Many people still use these same boats. Today, however, most people use them for enjoyment, not for transportation.

Some early American groups built large cities with hundreds of buildings. Before building a city, they planned ahead and set aside places for shops, homes, and religious buildings. Today, city planners

**The book READS it out loud to you!**

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- Unit 1 The Land and Early People
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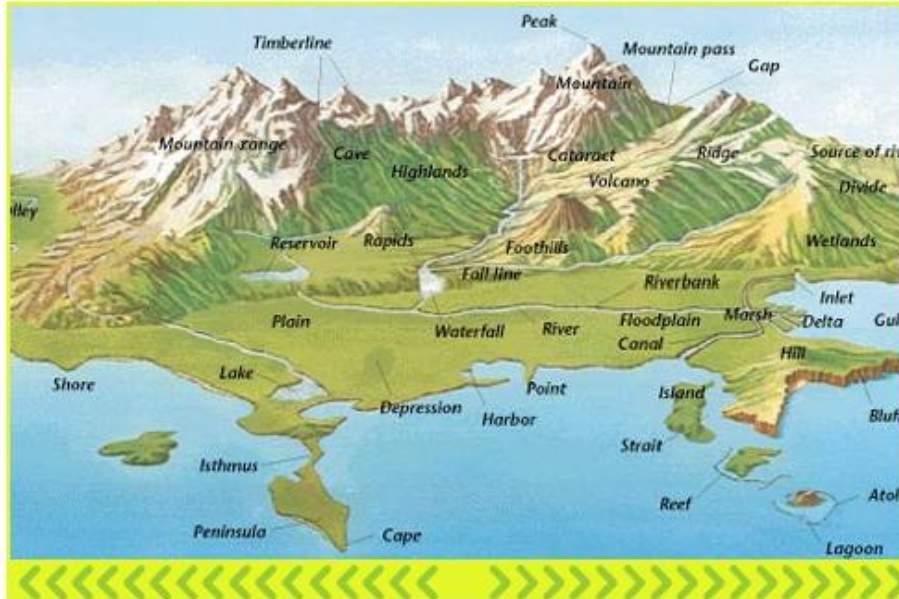
**Go to linked sites for maps, biographies, and interactive Geographic Glossary**

# Geography Glossary



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Glossary List



- Atoll
- Basin
- Bay
- Beach
- Bluff
- Butte
- Canal
- Canyon
- Cape
- Cataract
- Cave
- Channel
- Cliff
- Coast
- Coastal plain
- Continent
- Delta

To show more of the map, press the left and right arrows. Choose a feature by clicking on its name.

# Geography Glossary

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## Multimedia Biographies

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-  [Explorers and Pioneers](#)
-  [Artists, Architects, and Photographers](#)
-  [Writers](#)
-  [Educators](#)

CLICK any letter above to see a list of names beginning with that letter.

OR

CLICK a topic on the left for a list of names related to that topic.

Then CHOOSE the person you want to read about.



# Interactive Biography





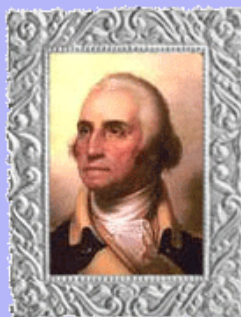
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Biographies

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Back

## George Washington

1732-1799

George Washington is often called the Father of Our Country. He earned this title for helping to create the United States. As the leader of the Continental army, he defeated the British in the American Revolution. As a politician he helped create the [Constitution of the United States](#) and went on to become the first President of the United States.

[Constitution of the United States](#)

Washington was born on February 22, 1732, in Westmoreland County, in the Virginia Colony. When Washington was three years old, his family moved to a plantation on the Potomac River. This plantation would later become Washington's estate [Mount Vernon](#). Growing up, Washington studied mathematics, reading, and surveying. Surveying is the use of mathematics to measure land and create boundaries. When Washington was 11 years

[Mount Vernon](#)

# Great Resource

- There are lots of interactive features to help your child learn!
- No more excuses about forgetting the book.
- No heavy backpacks! (except for Reading and Grammar 😊)

Please try it at home and let us know if you have any questions!

# Part Two

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# Math Activity Center

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# Example of Social Studies Activity Center

## No login or password needed!

