# Lesson 1

# **Spherical Earth**



Scan Lesson 1. Read the lesson titles and bold words. Look at the pictures. Identify three facts nce Journal.

	Atmosphere			1
l found this on page	work together.	Earth systems. I	Then explain ho	w
			10	
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			C4	
Describing Earth I found this on page	Draw Earth as see	en from space.		
= Main Idea = = =	*********	Detai	\$ = = = = = =	w

these systems

Atmosphere			Biosphere
Description:	Description:	Description:	Description:
ā — — — — — — — — — — — — — — — — — — —	s=====	the solid part of Earth	
	<del></del>		<u> </u>
	A		

Earth's four systems exchange	and
The	
provides oxygen, the	provides the
water, and the organisms in the biosphere a place to for their survival.	

## === Main Idea ===

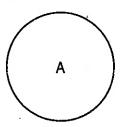
#### **How did Earth form?**

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**Model** the strength of gravitational force between two objects. Draw arrows of different thicknesses to indicate the strength of the gravitational force exerted by the objects in each pair.



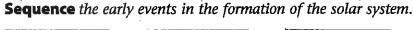


Object A has a greater mass than Object B.





Objects C and D have the same mass.

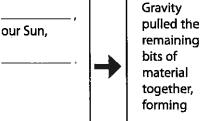


A cloud of gas, ice, and dust called a pulled the materials closer together.

and flattened into a

The nebula

The disk began to and the materials in the became



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#### Lesson 1 | Spherical Earth (continued)

# Main Idea === | ======= Details ============= Sequence the events that formed early Earth. I found this on page \_\_\_\_\_ The newly Gravity pulled in the formed irregular bumps, and became soft Earth grew enough to enough to generate The Formation of **Draw** and label the geosphere. Use these terms: Earth's Layers • least dense middle layer most dense I found this on page \_\_\_ Organize information about how the layers of the geosphere I found this on page \_\_\_\_\_ formed. The densest material \_\_\_\_\_\_\_ 1857 The least dense material \_\_\_\_\_ The materials with intermediate densities \_\_\_\_\_ **Connect It** Apply what you have learned about the formation of Earth to describe how gravity influenced the formation of the planet Mars. 10

**Predict** three facts that will be discussed in Lesson 2 after reading the headings. Write your predictions in your Science Journal.

# una Main Idea una anne anne Details anne anne anne **Detail** two methods that scientists use to study Earth's interior. Clues to Earth's Interior I found this on page ............... **Identify** the changes in temperature and pressure that occur as I found this on page \_\_\_\_\_. depth increases in the geosphere. Temperature Pressure increases decreases increases decreases **Summarize** how scientists use earthquake wave data to learn I found this on page \_\_\_\_\_ about Earth's interior. Earthquake waves travel differently through different kinds of materials. Some waves Other waves through certain materials. they reach certain materials. By studying how waves move, scientists are able to infer the \_\_\_ and \_\_\_\_\_\_ of materials inside Earth. Earth's Layers **Relate** three facts about the outermost layer of Earth. I found this on page \_\_\_\_\_ Name of this layer: Density relative to other layers: Earthquake waves travel \_\_\_\_\_\_ in this layer than in the layer below. **Describe** the 2 types of crust. Continental Oceanic

Earth's Structure

**Skim** Lesson 3 in your book. Read the headings and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Write your ideas in your Science Journal.

## === Main Idea ===

#### **Oceans and Continents**

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#### Landforms

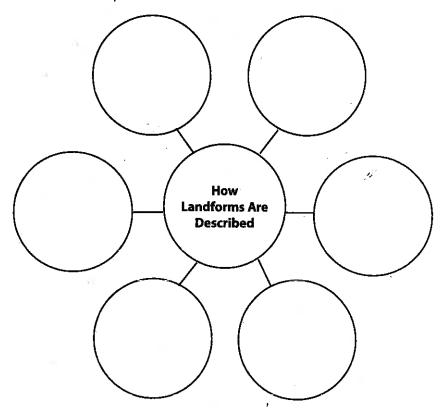
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Classify information about the features of Earth's surface.

**What Covers Earth's Surface Oceans** the land you live on cover more than \_ percent of the surface

Organize information about Earth's landforms. List 6 factors used to describe landforms.



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**Identify** two factors that change landforms over time.

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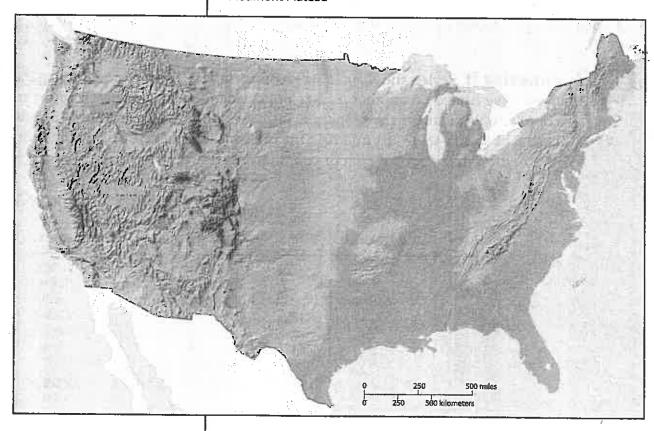
Main Idea	**********	Details	
I found this on page	<b>Determine</b> whether each example describes elevation, relief, or topography.		
•	The height of Mt. Everest:		
	The difference in elevation between the tops and bottoms of		
	hills in a given area:		
	The shape of a river and its valley:		
I found this on page	Compare Earth	's landforms in term	s of relief and elevation.
	Landform	Relief	Elevation
	Plains		
	Plateaus		
	Mountains		
I found this on page	Create a cond	ept map about p	lains, plateaus, <i>and</i>

# --- Main Idea --- | ----- Details -----

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ldentify the major landform regions of the United States. Label the features listed below. Color the plains green, the plateaus orange, and the mountains brown.

Plateaus	Plains	Mountains
Ozark Plateau	Interior Plains	Pacific Mountain System
Colorado Plateau	Gulf Coast Plain	Rocky Mountains
Columbia Plateau	Atlantic Coastal Plain	Appalachian Mountains
Appalachian Plateau		Basin and Range
Piedmont Plateau		•



0	Synthesize It Study the map above. What patterns do you see? How would yo
10	describe the major landform regions of the United States to a friend?
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