



Instructions: Imagine that your class is about to welcome three new students. It will be everyone's responsibility to teach them what we have learned about Carbon & Climate. Here is what they have to say about it:

### **PART A: New Classmates**



Analyze each student's statement. <u>Underline</u> all of the correct parts, and circle all of the comments that are either mistaken or debatable.



2 Look at your circled statements again. How would you reply to these ideas, based on what you have learned in class? Remember to provide evidence to support your claims.

Logan:		
José:		
Shawna:		



### **PART B: Carbon & Climate Quiz**

Instructions: Help Logan, José, and Shawna complete the following quiz about climate change. For each statement or question, circle the correct answer.

#### **True or False?**

1	Weather and climate are two words for the same thing.			
	True	False		
2 The carbon cycle is the flow of carbon through living things and the environment.				
	True	False		
3	A single carbon atom a the carbon cycle.	lways travels through the same processes, in the same order as it moves through		
	True	False		
All carbon dioxide found in the atmosphere (air) is unnatural.				
	True	False		
5 Some actions humans take increase the amount of carbon dioxide in the atmosphere, and some actions decrease it.				
	True	False		
6	Until recently, Earth's o	climate has always been the same.		
	True	False		

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#### **Multiple Choice**

- How do scientists know how much carbon dioxide was in the Earth's atmosphere 800,000 years ago?
- A. Studying tree rings
- **B.** Studying air bubbles in ice cores
- C. Carbon dioxide readings from Mauna Loa Observatory in Hawaii
- D. All of the above
- How can we use forests to study climate and climate change?
  - A. The type of forest found in a region is directly related to the climate.
  - B. Changes in forest regions can help us understand the effect of climate change.
  - C. Changes in forest species can provide insight into climate changes that may be occurring.
  - D. All of the above
- Nhat is one change that scientists have seen in plant species that they believe is related to changing climates?
  - A. Plants are holding more water in their stems.
  - B. Plants are developing a natural sunscreen in their leaves to block the sun's rays.
  - C. Plants are blooming earlier in the spring and continuing to grow later in fall.
  - D. All of the above
- Mhich of the following describes the most reliable source you might use to research climate change?
  - A. The first article that comes up after a Google search
  - B. Recent article by a university professor that cites the sources of its information
  - C. A blog site sponsored by a political group
  - D. An academic article published several years ago