

# Summer in the Winter?

Read each source below. Then complete the activities on pages 27–28.

## Source 1

“I’m confused,” said Sam. “Why do I need a swimsuit? It’s the middle of winter.”

“It is winter here,” agreed Sam’s dad. “But we’re traveling to Australia. It’s going to be summer there.”

“Whoa!” said Sam. “How many months is our plane trip going to take?”

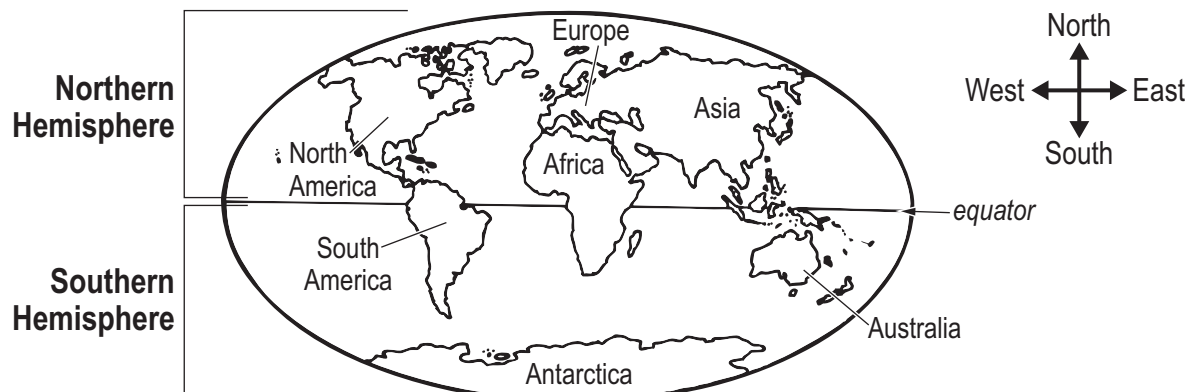
Sam’s dad laughed, “It will only take about 17 hours. Let me see if I can explain this better. Think of Earth as being divided into two halves: the Northern Hemisphere and the Southern Hemisphere. We live in the Northern Hemisphere, but Australia is in the Southern Hemisphere. As Earth spins around the Sun, parts of it are tilted closer to the Sun. The parts that are closer to the Sun have summer. The parts that are tilted away from it have winter. Right now, where we live is tilted away from the Sun. That’s why it’s so cold outside. Australia, though, is tilted closer. So it’s summer there. But in July, when we’re swimming in the pool, the folks in Australia will be in the middle of their winter.”

## Source 2

The following chart shows the first days of each season in each hemisphere.

	Spring	Summer	Autumn	Winter
Northern Hemisphere	March 20–23	June 20–22	September 21–24	December 20–23
Southern Hemisphere	September 21–24	December 20–23	March 20–23	June 20–22

## Source 3





# Summer in the Winter? *(cont.)*

Name: \_\_\_\_\_

**Part 4:** Refer back to the sources to answer these questions.

**11.** Imagine you and your family are traveling to Australia on New Year's Day (January 1). What kind of clothing would you pack for the weather at that time of year? Name six items of clothing.

\_\_\_\_\_

\_\_\_\_\_

**12.** Pretend you are Sam, and you are explaining to your friend why you are bringing summer clothes to Australia in the middle of winter. Use your own words to explain how it can be summer in Australia at that time.

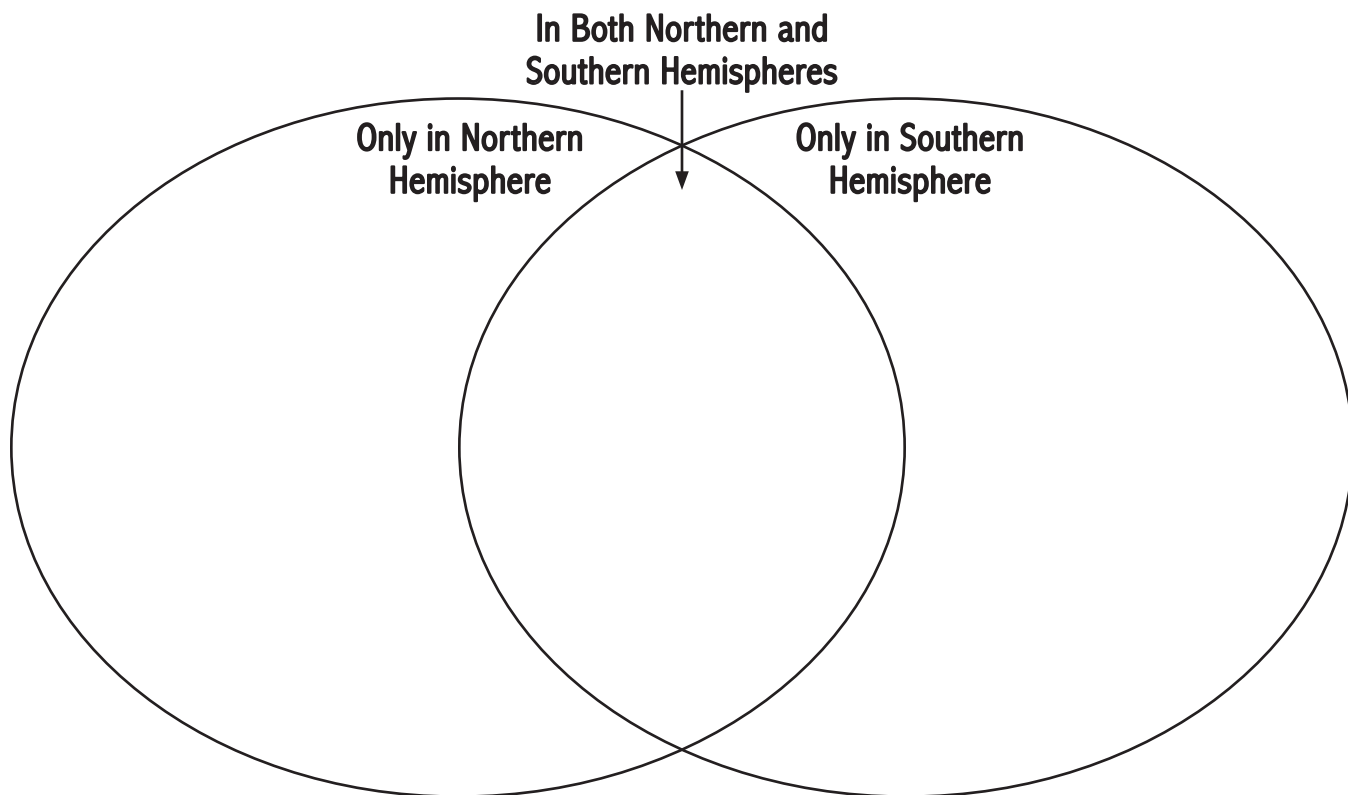
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**13.** There are seven continents: Africa, Antarctica, Asia, Australia, Europe, North America, and South America. Write the name of each continent in its correct section on the diagram below.



# Answer Key *(cont.)*

13. Based on the sources, steel coasters go much faster and can be built to be much higher than wooden coasters. This can be determined from the chart in Source 3, which shows that the fastest steel coasters are much faster (and taller) than the fastest wooden coasters. Also, according to Seth in Source 2, wooden coasters don't have the huge drops and vertical loops that steel coasters do.

## Unit 5. The Mystery Planet (page 19)

### Part 1

1. Sources 1 and 3                      3. Source 2  
2. Sources 1 and 3                      4. Source 3

### Part 2

5. D                      6. B                      7. C                      8. A

### Part 3

*The source number is given in parentheses.*

9. giant (1), enormous (1), massive (1)  
10. Uranus (3), Earth (1, 3)

### Part 4

11. The mystery planet is Jupiter. From Source 1, we learn that the planet is named after the king of the Roman gods, and Source 2 tells us that Jupiter was the ruler of the gods. We also learn that this planet is larger than all of the other planets combined. Source 3 illustrates that Jupiter is the largest of the planets. Finally, we learn that the mystery planet is an Outer Planet and it is the fifth from the Sun. Source 3 confirms that this would have to describe Jupiter.
12. Accept appropriate responses. Students could give clues about for whom the planet is named, if it is an Outer or Inner Planet, which planets are its nearest neighbors, how large the planet is in relation to other planets, and the order of the planet from the Sun.
13. Accept appropriate responses.

## Unit 6. The Dinner Party (page 22)

### Part 1

1. Sources 1 and 2                      3. Sources 1 and 4  
2. Source 2                              4. Sources 2 and 3

### Part 2

5. A                      6. B                      7. B                      8. B and D

### Part 3

*The source number is given in parentheses.*

9. thyme (4), oregano (4), basil (4)  
10. salad fork (3), dinner fork (1, 3), dinner knife (3),  
teaspoon (3), soup spoon (3)

### Part 4

11. Portmanteau: Crustard  
Words Combined: *crunchy* and *mustard*
12. Accept reasonable responses. Adam should begin cooking the chicken at about 7:00 or 7:05, because it takes about 25 minutes to cook. He should begin preparing the meal about 10 minutes prior to that.
13. Accept responses that meet the criteria mentioned in the question (i.e., two paragraphs, main reason why each person is nervous, use of transitional word or phrase).

## Unit 7. Summer in the Winter? (page 26)

### Part 1

1. Sources 1 and 3                      3. Source 1  
2. Source 3                              4. Source 3

### Part 2

5. C                      6. C                      7. C                      8. B

### Part 3

*The source number is given in parentheses.*

9. halves (1)  
10. swimsuit (1), outside (1)

### Part 4

11. Accept reasonable responses. Students should name articles of clothing that are appropriate for warm, summer weather.
12. Accept reasonable responses that paraphrase the explanation of seasons given by Sam's dad in Source 1.
13. Only in Northern Hemisphere: Asia, Europe, North America  
In Both Northern and Southern Hemisphere: Africa, South America  
Only in Southern Hemisphere: Antarctica, Australia

## Unit 8. Apples to Oranges (page 29)

### Part 1

1. Sources 2 and 4                      3. Source 4  
2. Source 3                              4. Source 1

### Part 2

5. C                      6. A                      7. A                      8. D

### Part 3

*The source number is given in parentheses.*

9. parentheses (1)                      10. greater than (3)

### Part 4

11. This is not the first time they have argued about something. Students should quote the first line of Source 3: "Amy's uncles disagree often."