Space Unit – Unit 1 – Lesson 2

Section 1

1. What is a pattern?
2. Do places like Hawaii have seasons? Why?
3. If it is summer in the northern hemisphere, what is the season in the southern hemisphere?
4. Describe the length of day in each season.

Section 2

1. On the flashlight and paper demonstration, what happens to the light as the paper is tilted?
2. How does this relate to how sunlight strikes the Earth?
3. ”Sunlight hits Earth in a similar way to how a flashlight strikes the surface of a ball”. How does this quote from the text explain how different parts of Earth are warmer than others? Read the last three paragraphs to help find the answer.

Section 3

1. Describe the seasons in Chicago.
2. What is a system?
3. Read the last paragraph. Why does the northern hemisphere experience winter?

Section 4

1. On what day of the year does Chicago receive its most energy from the sun?
2. What is the solstice?
3. What are the tropics?
4. What is the difference between the June solstice and the December solstice?

Section 5

1. What is the equinox?
2. At what two times does the Earth experience an equinox?