Name_____ Date_____ Section_____

8th Grade Science/ Unit 2 Space Science

Title: Activity 6 Earth's Days, Years, and Seasons

Challenge Question: How are Earth's days, years, and seasons related to the way Earth moves in space?

Background:

What do you know about how Earth moves in space?

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Materials:

Space Science book

Vocabulary: Define the following terms in your own words.

Term	Definition	Picture or Example
rotation		
day		
revolution		
year		
season		
equinox		
solstice		

Procedures:

1. Read pages 140 – 147 in the *Space Science* book.
2. Answer questions 1 – 3 and 5 – 13 from the reading.

3. Do Lesson Review on page 149, questions 1 – 9.

4. Create definitions for the Vocabulary. Answer Analysis Questions.

5. Write Conclusion.

Data/Results: *(Write your responses to the book questions on a separate sheet of paper.)*

Analysis Questions:

1. How would periods of light and darkness differ if Earth didn't rotate?

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2. Describe the temperature in the Southern Hemisphere when the North Pole is tilted away from the sun. Explain why this is?

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3. When it is winter in the Northern Hemisphere, how much daylight is at the North Pole? How much daylight is at the South Pole?

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4. During which day of the year is there the greatest amount of sunlight in the Southern Hemisphere? What season starts on this day in this hemisphere?

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Conclusion: How are Earth's days, years, and seasons related to the way Earth moves in space? *(Use evidence and examples from the assigned reading to support your answer.)*

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