

Name_____ Date_____ Section_____

8th Grade Science/ Unit 2 Space Science

Title: Activity 5 The Sun

Challenge Question: What are the properties of the sun?

Background:

State two facts you know about the sun. Ask one question that you have about the sun.

Materials:

Space Science book

Vocabulary: Define the following terms in your own words.

Term	Definition	Picture or Example
nuclear fusion		
sunspot		
solar flare		
prominence		

Procedures:

1. Read pages 74 - 83 in the *Space Science* book.
2. Answer questions 1 - 3, 5 - 7, and 9 - 14 from the reading.
3. Do Lesson Review on page 85, questions 1 - 11.
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. What similarities do the sun and Earth share?

2. What layers of the sun make up its atmosphere? What layers of the sun make up its interior? From which layer of the sun does energy escape?

3. How were scientists able to explain the huge quantities of energy produced by the sun?

4. Based on your understanding of the sun's and Earth's rotations, can you hypothesize what the rotations of the other planets in the solar system might be like and why?

Conclusion: What are the properties of the sun? *(Use evidence and examples from the assigned reading to support your answer.)*
