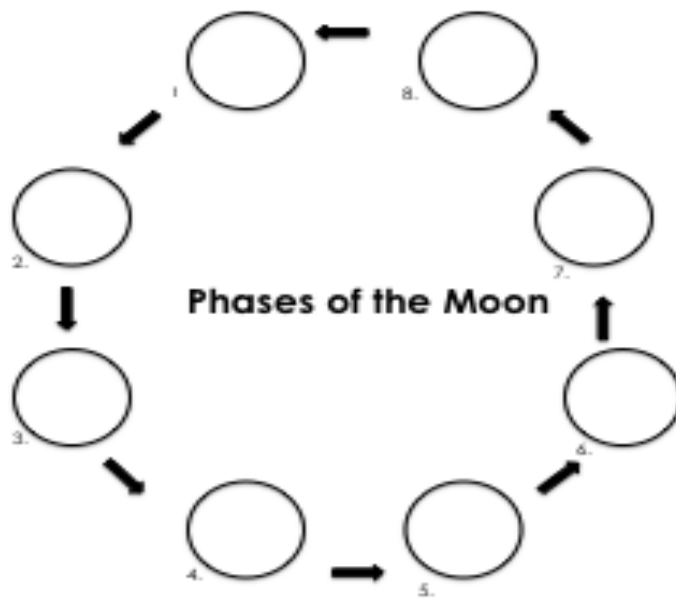


2nd Grade Science Lesson on the Sun and the Moon

Overview: This test is a one-dimensional motion for a 2nd grade science class. The students will have had spent three full weeks focusing on the phases of the moon before this test is given. I used Popham's guide on assessment to help me write the questions.

Instructions: Follow the directions for each question and answer the question with your best thoughts. Believe you can do it.

1. Color and label the 8 phases of the moon (16 points)



1. _____

2. _____

3. _____

4. _____

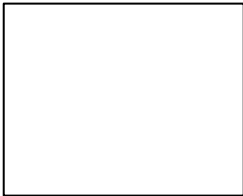


5. _____

6. _____




7. _____

8. _____

2. Fill in the blank. (2 points)



A **shadow** is smaller when the object is _____ from the light.



A **shadow** is bigger when the object is _____ to the light.

3. Multiple Choice: There is one correct answer. (1 point each)

3a. Who was the first man to walk on the moon?

- | | |
|---------------------|-----------------|
| a. Neil Armstrong | b. Barack Obama |
| c. John. F. Kennedy | d. Andrew Luck |

3b. (About) How long does it take for the moon to orbit the Earth?

- | | |
|------------|-------------|
| a. 14 days | b. 365 days |
| c. 7 days | d. 28 days |

3c. What is the sun made out of?

- | | |
|------------------------|-------------------|
| a. hydrogen and carbon | b. carbon dioxide |
| c. water | d. air |

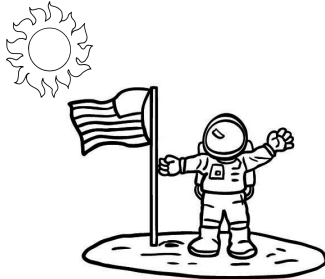
Fill in the blank: (1 point each)

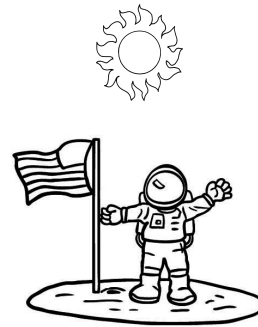
4a. It takes _____ minutes for the sun's light to reach Earth.

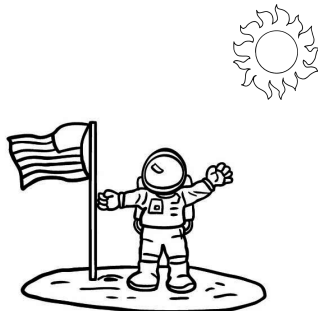
4b. The sun is 4.6 _____ years old.

4c. The moon is made up of _____.

5. Color in the astronaut's shadow based on where the sun is. Write on the lines why you colored it where you did. (9 points)







[illegible]

Key/Bloom Level

1. (Analyze)

1. first quarter
2. waxing gibbous
3. full moon
4. waning gibbous
5. third quarter
6. waning crescent
7. new moon
8. waxing crescent

**Start position will vary,
but order should be the
same.

2. (apply)

- a. further
- b. closer

3. (knowledge)

- a. Neil Armstrong
- b. 28 days
- c. hydrogen and carbon

4. (Understand)

- a. 8
- b. billion
- c. rock

5. (Apply)

a. (shadow at bottom right of astronaut) The sun is angling down to the right, so the shadow will be to the right

b. (shadow is below astronaut) The sun is right on top of the astronaut, so the shadow will be below him.

c. (shadow at bottom left of astronaut). The sun is angling down to the left, so the shadow will be to the left

Written Response Scoring Key

Points	Explanation
	**Student receives 1 point if he or she shades in the shadow in the correct location.
0	Student did not write an answer on the paper or the answer does not at all relate to the question asked
1	Student answered the question but it doesn't completely relate to the topic. Answer is not in a complete sentence.

2	Answer is a correct response to the question, and is written in a complete sentence.
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Objectives

Science 2.2.7 Investigate how the sun appears to move through the sky during the day by observing.

Science 2.2.8 Investigate how the moon appears to move through the sky during the day by observing and drawing its location at different times.

Science 2.2.9 Investigate how the shape of the moon changes from day to day in a repeating cycle that lasts about a month.