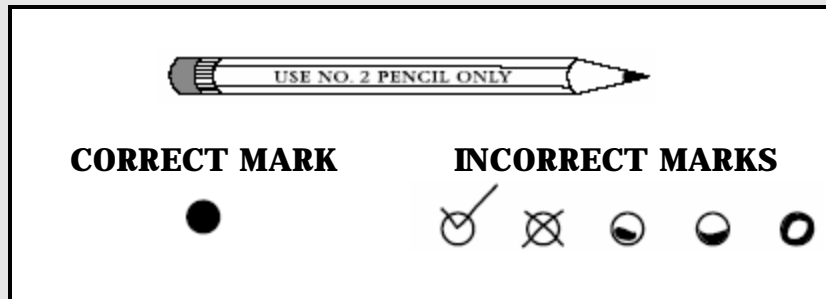


Grade: 4

Content: Science

WHEN ANSWERING QUESTIONS IN THIS TEST BOOKLET



- Use only soft black lead pencil (No. 2).
- Do NOT use ink or ball point pen.
- When marking your answers to multiple-choice questions, mark heavy, dark marks that completely fill the circle. Mark one answer for each question.
- Erase completely any marks you wish to change.
- Make NO STRAY marks on any page of your test booklet.
- For the open-response questions, be sure you write your answers on the lines and spaces provided. Answers or parts of answers written outside the boxed areas cannot be scored.

The following is the guide that will be used to evaluate your responses to the open-response questions in this test.

KENTUCKY GENERAL SCORING GUIDE

**SCORE
POINT 4**

- **You complete all important components of the question and communicate ideas clearly.**
- **You demonstrate in-depth understanding of the relevant concepts and/or processes.**
- **Where appropriate, you choose more efficient and/or sophisticated processes.**
- **Where appropriate, you offer insightful interpretations or extensions (generalizations, applications, analogies)**

**SCORE
POINT 3**

- **You complete most important components of the question and communicate clearly.**
- **You demonstrate an understanding of major concepts even though you overlook or misunderstand some less-important ideas or details.**

**SCORE
POINT 2**

- **You complete some important components of the question and communicate those components clearly**
- **You demonstrate that there are gaps in your conceptual understanding.**

**SCORE
POINT 1**

- **You show minimal understanding of the question.**
- **You address only a small portion of the question**

**SCORE
POINT 0**

- **Your answer is totally incorrect or irrelevant**

BLANK

- **You did not give any answer at all.**

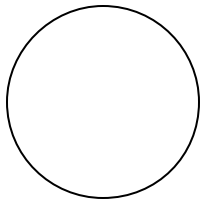
OPEN-RESPONSE QUESTIONS

Read all parts of each open response question before you begin. Write your answers to the open response questions in the space provided in this test booklet. For each open response question, use the grid provided in the test booklet to create any required charts or graphs. If a question does not require a chart or graph, write your written response over the grid lines.

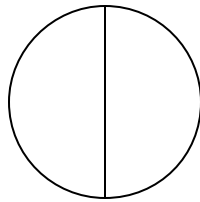
Write your answer to question 6 in the space provided on the next page.

Phases of the Moon

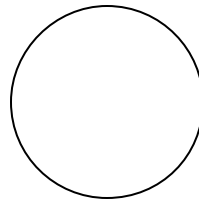
6. As the moon revolves around Earth, it appears to change. It changes from a full moon to a quarter moon to a new moon and then so on.



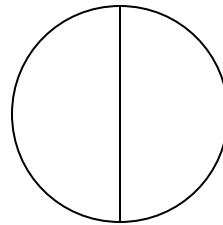
Full
Moon



Last Quarter
Moon




New
Moon



First Quarter
Moon

- A. What is the source of the light of the moon and how does it get to Earth?
B. Make a picture of the Sun, Earth, and the Moon that shows why a new moon appears the way it does.

Do not write on this page. Please write your answer to this open-response question on the next page. 

CORE CONTENT:**Scoring Guide****Primary Academic Expectation:****AE-2.2**

Students identify analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events.

Primary Core Content Code:**SC-04-2.3.5**

Students will understand that the moon moves across the sky on a daily basis much like the Sun. The observable shape of the moon can be described as it changes from day to day in a cycle that lasts about a month.

Score	Description
4	The students will name the sun as the source of light for the moon. They will correctly draw a picture of the Earth, Moon, and Sun that clearly shows why the new moon appears the way it does.
3	The students name the sun as the source of light for the moon and creates a picture of the Earth, Moon, and Sun showing why a new moon looks the way it does.
2	Students will name the sun as the source of light for the moon and that it is being reflected off the moon and onto the Earth. Their drawing of the Earth, Moon, and Sun is done incorrectly or missing parts.
1	The student demonstrates little understanding of how the Moon gets it's source of light as well as their picture is incorrect and missing.
0	Student's response is totally incorrect or irrelevant.
Blank	No student response.