



Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project

Grade 8 Unit 2: Gravity and Motion of Objects in the Solar System

Task 2 Prompt 1 Part B Scored and Annotated Anchor Set

March 2025

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CASCIA Grade 8 EOU Assessment 2 Task 2: Earth, Moon, and Sun

Prompt 1 Part B Score Point 2

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: • Earth's tilt • Earth's orbit around the sun during the course of a year	NA	NA

Score Point 2 (2/2 aspects met)

- Part B
 - Includes Earth's tilt.
 - Includes Earth's orbit around the sun during the course of a year.

Part B.

What two factors cause the cycle of the seasons?

The Earth's tilt on the axis and the orbit of Earth around the sun.

CASCIA Grade 8 EOU Assessment 2 Task 2: Earth, Moon, and Sun

Prompt 1 Part B Score Point 1

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: • Earth's tilt • Earth's orbit around the sun during the course of a year	NA	NA

Score Point 1 (1/2 aspects met)

- Part B
 - Includes Earth's tilt.
 - Does **NOT** include Earth's orbit around the sun during the course of a year (i.e., The student incorrectly states that the Earth revolves around the moon.).

Part B.

What two factors cause the cycle of the seasons?

The Earth's revolution around the moon and Earth's
23.5° tilt.

CASCIA Grade 8 EOU Assessment 2 Task 2: Earth, Moon, and Sun

Prompt 1 Part B Score Point 0

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: • Earth's tilt • Earth's orbit around the sun during the course of a year	NA	NA

Score Point 0 (0/2 aspects met)

- Part B
 - Does **NOT** include Earth's tilt (i.e., The student states that it is the tilt of the sun.).
 - Does **NOT** include Earth's orbit around the sun during the course of a year (i.e., The student states that it is the position of the sun.).

Part B.

What two factors cause the cycle of the seasons?

The tilt of the sun and
position of the sun.