



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 C Scored and Annotated Anchor Set

March 2025

Grade 8 Unit 2: Gravity and Motion of Objects in the Solar System, Task 2 Prompt 1 Part C Scored and Annotated Anchor Set was developed with funding from the U.S. Department of Education under the Competitive Grants for State Assessments Program CFDA 84.368A. The contents of this paper do not represent the policy of the U.S. Department of Education, and no assumption of endorsement by the Federal government should be made.

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

Prompt 1 Part C Score Point 3

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Describes the poles (or ends) as the coolest - Describes the equator (or middle) as the warmest - Explains the relationship between the angle of sunlight hitting Earth's surface to temperature	NA

Score Point 3 (3/3 aspects met)

• Part C

- Describes the poles as the coolest (i.e., The student response includes, "... consistently cool.>").
- Describes the equator as the warmest (i.e., The student response includes, "... consistently warm.>").
- Explains the relationship between the temperature and where the sun/flashlight shines directly on the surface (i.e., The student response includes, "... less direct . . ." and "... more direct . . .").

Part C.

According to Figure 1, which areas on Earth are consistently the coolest? Which areas are consistently the warmest? Why?

Because the poles receive less direct sunlight, they are consistently cool. Because the equator receives more direct sunlight, it is consistently warm.

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

Prompt 1 Part C Score Point 2

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects`	Response includes the following aspects: - Describes the poles (or ends) as the coolest - Describes the equator (or middle) as the warmest - Explains the relationship between the angle of sunlight hitting Earth's surface to temperature	NA

Score Point 2 (2/3 aspects met)

- Part C
 - Describes the poles as the coolest.
 - Does **NOT** describe the equator (or middle) as the warmest.
 - Explains the relationship between the temperature and where the sun/flashlight shines directly on the surface (i.e., The student states that "Areas that are warmer have more direct sunlight.").

Part C.

According to Figure 1, which areas on Earth are consistently the coolest? Which areas are consistently the warmest? Why?

The poles are the coolest because they don't get
lots of direct sunlight. Areas that are warmer have
more direct sunlight.

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

Prompt 1 Part C Score Point 1

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects`	Response includes the following aspects: - Describes the poles (or ends) as the coolest - Describes the equator (or middle) as the warmest - Explains the relationship between the angle of sunlight hitting Earth's surface to temperature	NA

Score Point 1 (1/3 aspects met)

- Part C
 - Does **NOT** describe the poles as the coolest (i.e., The student refers to the entire hemisphere.).
 - Does **NOT** describe the equator as the warmest.
 - Explains the relationship between the temperature and where the sun/flashlight shines directly on the surface (i.e., The student explains that the tilt of the Earth makes some parts colder because they “. . . don’t get as much sunlight as the other parts do.”).

Part C.

According to **Figure 1**, which areas on Earth are consistently the coolest? Which areas are consistently the warmest? Why?

The Southern hemisphere and the northern hemisphere are the coldest because the Earth is tilted and those parts don't get as much sunlight as the other parts do.

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

Prompt 1 Part C Score Point 0

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects`	Response includes the following aspects: - Describes the poles (or ends) as the coolest - Describes the equator (or middle) as the warmest - Explains the relationship between the angle of sunlight hitting Earth's surface to temperature	NA

Score Point 0 (0/3 aspects met)

- Part C
 - Does **NOT** describe the poles (or ends) as the coolest.
 - Does **NOT** describe the equator (or middle) as the warmest.
 - Does **NOT** explain the relationship between the temperature and where the sun/flashlight shines directly on the surface.

Part C.

According to Figure 1, which areas on Earth are consistently the coolest? Which areas are consistently the warmest? Why?

The coolest part is in the middle because it is the farthest the warmest is in the sides because it is the closest.