



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

Grade 5 Unit 4: Earth and its Gravitational Force and Motion

Task 2 Prompt 1 Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 4: Earth and its Gravitational Force and Motion, Task 2 Prompt 1 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 5 EOU Assessment 4 Task 2: Meet the Beetles!

Prompt 1 Score Point 2

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes the pattern of movement as counter-clockwise during the year - Explains how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun	NA	NA

Score Point 2 (2/2 aspects met)

- Describes the pattern of movement as counter-clockwise during the year.
- Explains how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun.

Describe the pattern of movement of the position of the Big Dipper in the night sky. Use information from Figure 1.

The Big Dipper is moving counter clockwise. When the Big Dipper is in spring the earth is lower than when the earth is in winter.

Explain why the position of the Big Dipper appears to move in the night sky during the year.

The Big Dipper appears to move in the night sky because when the earth revolves around the sun it looks like it's moving but it's not moving the earth is.

CASCIA Grade 5 EOU Assessment 4 Task 2: Meet the Beetles!

Prompt 1 Score Point 1

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes the pattern of movement as counter-clockwise during the year - Explains how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun	NA	NA

Score Point 1 (1/2 aspects met)

- Describes the pattern of movement as counter-clockwise during the year.
- Does **NOT** explain how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun.

Describe the pattern of movement of the position of the Big Dipper in the night sky. Use information from Figure 1.

According to figure 1 the Big Dipper appears to be moving counter clockwise.

Explain why the position of the Big Dipper appears to move in the night sky during the year.

In both winter and summer the Big Dipper is in the north but since winter is a colder season it is lower to the ground. Both spring and fall are opposites of each other, while during spring the Big Dipper is in the east and fall is the opposite.

Prompt 2:
Part A.

CASCIA Grade 5 EOU Assessment 4 Task 2: Meet the Beetles!

Prompt 1 Score Point 0

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes the pattern of movement as counter-clockwise during the year - Explains how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun	NA	NA

Score Point 0 (0/2 aspects met)

- Does **NOT** describe that the Big Dipper moves in a counterclockwise motion.
- Does **NOT** explain how constellations can change positions and/or appear only at certain times of the year due to the Earth's orbit around the sun.

Describe the pattern of movement of the position of the Big Dipper in the night sky. Use information from Figure 1.

the big Dipper in the sky starts at the bottom when it is winter gets to the top in the summer and just keeps rotating in a circle. Explain why the position of the Big Dipper appears to move in the night sky during the year. it looks like really cool in the night time and we also need stars to help bugs that can only find there way home when the stars are out