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

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

Task 3 Prompt 3 Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 4: Earth and its Gravitational Force and Motion, Task 3 Prompt 3 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.

CASCIA Grade 5 EOU Assessment 4 Task 3: Turn, Turn, Turn

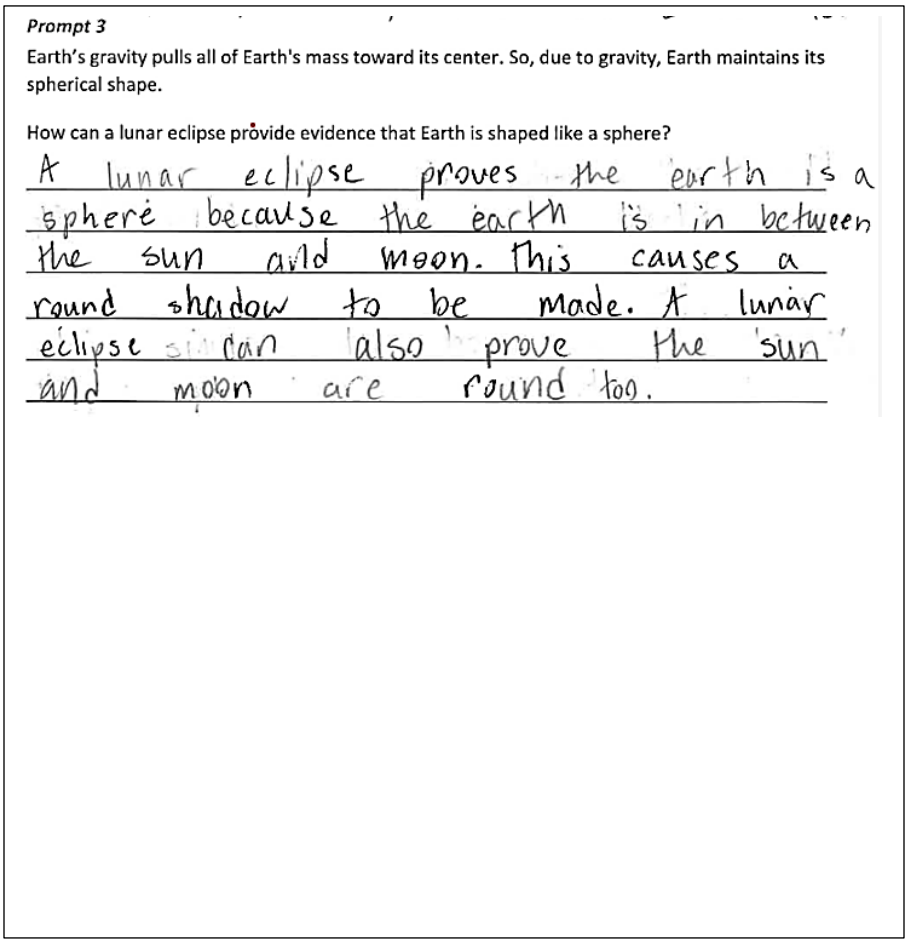
Prompt 3 Score Point 2

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	Response includes the following aspects: • Statement of the arrangement of the sun, Earth, and moon during a lunar eclipse • Explains how the curved shape of Earth's shadow on the moon is evidence the Earth is a sphere	NA	NA

Score Point 2 (2/2 aspects met)

- Describes the arrangement of the sun, Earth, and moon during a lunar eclipse.
- Explains how the curved shape of Earth's shadow (i.e., "round shadow") is evidence that the Earth is a sphere.



Prompt 3

Earth's gravity pulls all of Earth's mass toward its center. So, due to gravity, Earth maintains its spherical shape.

How can a lunar eclipse provide evidence that Earth is shaped like a sphere?

A lunar eclipse proves the earth is a sphere because the earth is in between the sun and moon. This causes a round shadow to be made. A lunar eclipse can also prove the sun and moon are round too.

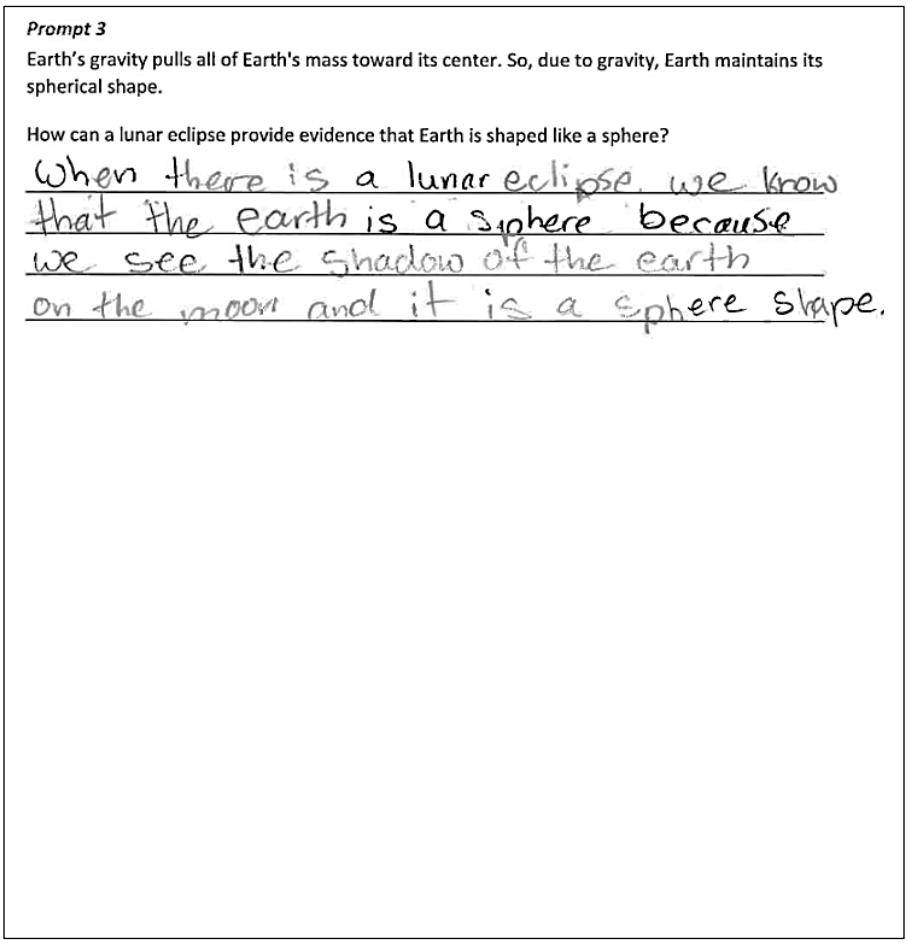
CASCIA Grade 5 EOU Assessment 4 Task 3: Turn, Turn, Turn
Prompt 3 Score Point 1

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	Response includes the following aspects: • Statement of the arrangement of the sun, Earth, and moon during a lunar eclipse • Explains how the curved shape of Earth's shadow on the moon is evidence the Earth is a sphere	NA	NA

Score Point 1 (1/2 aspects met)

- Does **NOT** describe the arrangement of the sun, Earth, and moon during a lunar eclipse.
- Explains how the curved shape of Earth's shadow (i.e., "sphere shape" shadow) is evidence that the Earth is a sphere.



Prompt 3

Earth's gravity pulls all of Earth's mass toward its center. So, due to gravity, Earth maintains its spherical shape.

How can a lunar eclipse provide evidence that Earth is shaped like a sphere?

When there is a lunar eclipse we know that the earth is a sphere because we see the shadow of the earth on the moon and it is a sphere shape.

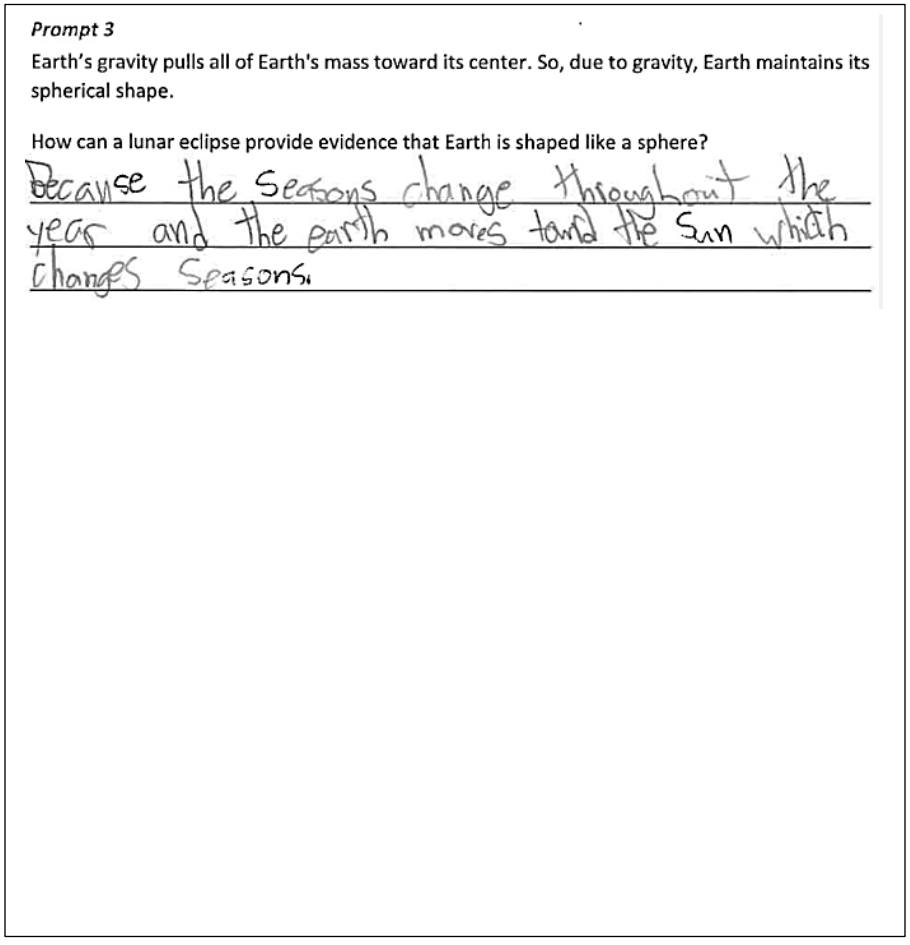
CASCIA Grade 5 EOU Assessment 4 Task 3: Turn, Turn, Turn
Prompt 3 Score Point 0

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	Response includes the following aspects: • Statement of the arrangement of the sun, Earth, and moon during a lunar eclipse • Explains how the curved shape of Earth's shadow on the moon is evidence the Earth is a sphere	NA	NA

Score Point 0 (0/2 aspects met)

- Does **NOT** describe the arrangement of the sun, Earth, and moon during a lunar eclipse.
- Does **NOT** explain how the curved shape of Earth's shadow is evidence that the Earth is a sphere.



Prompt 3

Earth's gravity pulls all of Earth's mass toward its center. So, due to gravity, Earth maintains its spherical shape.

How can a lunar eclipse provide evidence that Earth is shaped like a sphere?

Because the Seasons change throughout the year and the earth moves toward the Sun which changes Seasons.