



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

Grade 5 Unit 3: Earth Systems and the Solution of Water Problems

Task 3 Prompt 1 Part B Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 3: Earth Systems and the Solution of Water Problems, Task 3 Prompt 1 Part B 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.

All rights reserved. Any or all portions of this document may be reproduced and distributed without prior permission, provided the source is cited as: Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project. (2025). *Grade 5 Unit 3: Earth Systems and the Solution of Water Problems, Task 3 Prompt 1 Part B Scored and Annotated Anchor Set*. Lincoln, NE: Nebraska Department of Education.

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil

Prompt 1 Part B Score Point 3

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 three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Selects "Different" - The plant roots help keep the soil in place - The soil with plants does not wash away	NA

Score Point 3 (3/3 aspects met)

- Part B
 - Selects "Different."
 - Includes that the plant roots help keep the soil in place.
 - Includes that the soil will not wash away (i.e., "... the water won't move it ...").

Identify if the results from the two experiments, one with bare soil and one with plants rooted in the soil, will be the **SAME OR DIFFERENT**. Circle your answer below **AND** then compare the two experiments to explain your answer.

The results of the experiments will be the SAME **DIFFERENT**

When I compare the two experiments, I know this because when the plants root down it will keep the soil in place and the water won't move it. The plants will also block rain from the soil.

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil

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 three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: • Selects "Different" • The plant roots help keep the soil in place • The soil with plants does not wash away	NA

Score Point 2 (2/3 aspects met)

- Part B
 - Selects "Different."
 - Includes that the plant roots help keep the soil in place (i.e., "... holding the dirt in place with its roots").
 - Does **NOT** include that the soil with plants does not wash away.

Identify if the results from the two experiments, one with bare soil and one with plants rooted in the soil, will be the **SAME OR DIFFERENT**. Circle your answer below **AND** then compare the two experiments to explain your answer.

The results of the experiments will be the SAME DIFFERENT.

When I compare the two experiments, I know this because The plants are going to be holding the dirt with its roots. Because the plant is living in the ground the roots are stuck in the dirt.

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil

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 three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Selects "Different" - The plant roots help keep the soil in place - The soil with plants does not wash away	NA

Score Point 1 (1/3 aspects met)

- Part B
 - Selects "Different."
 - Does **NOT** include that the plant roots will keep the soil in place.
 - Does **NOT** include that the soil with plants does not wash away.

Identify if the results from the two experiments, one with bare soil and one with plants rooted in the soil, will be the **SAME OR DIFFERENT**. Circle your answer below **AND** then compare the two experiments to explain your answer.

The results of the experiments will be the **SAME** **DIFFERENT**

When I compare the two experiments, I know this because There is something
stopping it so it won't cover the whole thing if there
was nothing covering it it would spread faster.

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil

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 three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Selects "Different" - The plant roots help keep the soil in place - The soil with plants does not wash away	NA

Score Point 0 (0/3 aspects met)

- Part B
 - Does **NOT** select "Different."
 - Does **NOT** include that the plant roots will keep the soil in place.
 - Does **NOT** include that the soil with plants does not wash away.

Identify if the results from the two experiments, one with bare soil and one with plants rooted in the soil, will be the **SAME OR DIFFERENT**. Circle your answer below **AND** then compare the two experiments to explain your answer.

The results of the experiments will be the SAME DIFFERENT.

When I compare the two experiments, I know this because the soil really
just like the soil in plants.