

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 2 Parts A & B Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 3: Earth Systems and the Solution of Water Problems, Task 3 Prompt 2 Parts A & 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.

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CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil Prompt 2 Parts A & B Score Point 2

Prompt 2 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A. & Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A Identifies that wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil) Part B A description of how the interaction of the atmosphere or wind and the geosphere or soil will result in a loss of topsoil or a reduction in crop production	NA	NA

Score Point 2 (2/2 aspects met)

- Part A
 - Identifies wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil).
- Part B
 - Includes a description of the effects of wind erosion on the topsoil.

Part A.
Identify the type of erosion represented in Figure 4 and explain the interaction between the two Earth spheres.
The type of erosion is wind erosion,
The wind is atmosphere and dirt is
geosphere. They are interacting by the
Part B.
Explain how this type of erosion, shown in Figure 4, will negatively affect the Murdoch's crop production. Remember, fertile soil has a thick top layer where plant roots can take hold.
Wind erosion will effect the field
body because the fertile crop
Soil will blow away. You will then
have no good soil to plant in.
v.

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil Prompt 2 Parts A & B Score Point 1

Prompt 2 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A. & Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A Identifies that wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil) Part B A description of how the interaction of the atmosphere or wind and the geosphere or soil will result in a loss of topsoil or a reduction in crop production	NA	NA

Score Point 1 (1/2 aspects met)

- Part A
 - Does **NOT** identify wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil).
- Part B
 - Includes a description of the effects of wind erosion on the topsoil.

Part A. Identify the type of common two Earth spheres.					
The Aron	sphere	12 6	lowing	The	Geosphen
Part B. Explain how this type	e of erosion, sho	wn in Figure	4, will negativel	y affect the N	Murdoch's crop
anadustian Damanal	oer, fertile soil ha	s a thick top	layer where pla	nt roots can	take hold.
T	A -1 - 1 1	F 1/33	WI MINION	V TANK	100
The wil	10 Will	regat	vely a	ffect	Murdocks

CASCIA Grade 5 EOU Assessment 3 Task 3: Protecting Earth's Soil Prompt 2 Parts A & B Score Point 0

Prompt 2 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A. & Part B.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A Identifies that wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil) Part B A description of how the interaction of the atmosphere or wind and	NA	NA
			the geosphere or soil will result in a loss of topsoil or a reduction in crop production		

Score Point 0 (0/2 aspects met)

- Part A
 - Does **NOT** identify wind erosion is represented by the interaction between the atmosphere (or wind) and the geosphere (or soil).
- Part B
 - Does **NOT** include a description of the effects of wind erosion on the topsoil.

Part A.	
Identify the two Earth sp	pe of erosion represented in Figure 4 and explain the interaction between the eres.
Part B.	
	his type of erosion, shown in Figure 4, will negatively affect the Murdoch's crop
	emember, fertile soil has a thick top layer where plant roots can take hold.
production.	oil belee the Plant grow and the