

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

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

Task 1 Prompt 1 Part D Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 4: Earth and its Gravitational Force and Motion, Task 1 Prompt 1 Part D 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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**Prompt 1 Part D Rubric** 

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part D.	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:  Shortest shadows are seen during the middle of the day  Evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, then get long again in the evening  The length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis	NA

### Score Point 3 (3/3 aspects met)

- Part D
  - Includes the statement: shortest shadows are seen during the middle of the day.
  - Includes the statement:
     evidence from Graph 1
     shows shadows start long in
     the morning, get short in the
     afternoon, and then get long
     again in the evening.
  - Includes the statement: the length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis.

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		<u> </u>			<u>,                                      </u>
Pa	rt D.				
	e the word bank to co n be used more than o		ences below. No	ot all words need	d to be used and some
			Word Bank		
		just before sunset	angle	orbit	
		just after sunrise	long	axis	1
		during the middle of the day	short	distance	1
1)	The shortest shadow	s are seen	duing T	he Mide	de of the
2)	The pattern in Graph	1 shows that sl	hadow lengths a	re <i>[0/</i> 1	9
	in the morning,	Sho/t	in the aft	ternoon, and the	en
	-long	again in th	ne evening.		
3)	The length of shadov	vs is caused by t	the CLI	91e	of the light from the sun
	when it strikes the su	urface of Earth a	s Earth rotates	on its	XII.

**Prompt 1 Part D Rubric** 

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part D.	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:  Shortest shadows are seen during the middle of the day  Evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, then get long again in the evening  The length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis	NA

### Score Point 2 (2/3 aspects met)

#### Part D

- Includes the statement: shortest shadows are seen during the middle of the day.
- Includes the statement:
   evidence from Graph 1
   shows shadows start long in
   the morning, get short in
   the afternoon, and then get
   long again in the evening.
- Does NOT include the statement: the length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis (i.e., uses distance instead of angle).

Part D.	11			
Use the word bank to co can be used more than		ences below. N	ot all words nee	d to be used and some
		Word Bank		
	just before sunset	angle	orbit	
	just after sunrise	long	axis	
	during the middle of the day	short	distance	
1) The shortest shadov	ws are seen <u>\lambda</u>	uring t	he mi	ddle of the day
2) The pattern in Grap	<b>h 1</b> shows that sl	hadow lengths a	re long	
in the morning,	hort	in the af	ternoon, and the	en
long	again in th	ne evening.		
3) The length of shado	ws is caused by t	he dist	ance o	of t n the sun
when it strikes the s	urface of Earth a	s Earth rotates	on its	<i>is</i>

**Prompt 1 Part D Rubric** 

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part D.	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:  Shortest shadows are seen during the middle of the day  Evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, then get long again in the evening  The length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis	NA

### Score Point 1 (1/3 aspects met)

- Part D
  - Includes the statement: shortest shadows are seen during the middle of the day.
  - Does NOT include the statement: evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, and then get long again in the evening (i.e., transposes "short" and "long").
  - Does NOT include the statement: the length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis (i.e., uses "orbit" instead of "angle").

Word Bank    just before   angle   orbit     just after   sunrise   long   axis     during the   middle of the   short   distance     day   fee   middle   of fee     in the morning,   1019   fee   fee     in the morning,   1019   fee   fee     again in the evening.    3) The length of shadows is caused by the   Of   fee     when it strikes the surface of Earth as Earth rotates on its   OXIS	D.				
just before sunset angle orbit  just after long axis  during the middle of the short distance  day  1) The shortest shadows are seen Injury for middle of the short of the sho			nces below. N	lot all words n	eed to be used and som
Just before sunset angle orbit  just after sunrise long axis  during the middle of the short distance  day  The shortest shadows are seen fishing the middle of the short pattern in Graph 1 shows that shadow lengths are long in the morning, long in the afternoon, and then  Sort again in the evening.			Word Bank		
sunset angle orbit  just after sunrise long axis  during the middle of the short distance day  1) The shortest shadows are seen thing the middle of the short distance  2) The pattern in Graph 1 shows that shadow lengths are long in the morning, long in the afternoon, and then  Short again in the evening.  3) The length of shadows is caused by the fight from the light from the sunset long in the light from th		_	Troto bulli.		
sunrise long axis  during the middle of the short distance  1) The shortest shadows are seen filling for middle of the long.  1) The pattern in Graph 1 shows that shadow lengths are long in the morning, long in the afternoon, and then again in the evening.			angle	orbit	
in the morning, 1009 in the afternoon, and then again in the evening.  The length of shadows is caused by the of the light from to day.		F. 1000000000000000000000000000000000000	long	axis	
In the morning, 10.09 in the afternoon, and then again in the evening.  The length of shadows is caused by the 10.09 in the light from the length of shadows is caused by the 10.09 in the light from the		middle of the	short	distance	
in the morning, 10.09 in the afternoon, and then  Short again in the evening.  The length of shadows is caused by the orbit from to any 5					
3) The length of shadows is caused by the		V20020	17,233		
The length of shadows is caused by the Of biff f the light from t	the morning,	1019	in the at	fternoon, and	then
av.s	Stort	again in the	evening.		
av.s	he length of shady	was is caused by th	. 01	bit	f the light from the c
when it strikes the surface of Earth as Earth rotates on its	ne length of shoot	wass caused by th			
	hen it strikes the	surface of Earth as	Earth rotates	on its	alis

**Prompt 1 Part D Rubric** 

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part D.	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:  Shortest shadows are seen during the middle of the day  Evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, then get long again in the evening  The length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis	NA

## Score Point 0 (0/3 aspects met)

- Part D
  - Does NOT include the statement: shortest shadows are seen during the middle of the day.
  - Does NOT include the statement: evidence from Graph 1 shows shadows start long in the morning, get short in the afternoon, and then get long again in the evening.
  - Does NOT include the statement: the length of shadows is caused by the angle of the sun's light striking Earth's surface as Earth rotates on its axis.

		Word Bank		
	just before sunset	angle	orbit	1
	just after sunrise	long	axis	
	during the middle of the day	short	distance	
The shortest sh	adows are seen	U5T	MARCI	SUN risi
In the morning,	2// again in the	evening.	fternoon, and the	of the light from the su
when it strikes	the surface of Earth as	Earth rotates	s on its <u>() /</u>	<b>わ</b> / ナ