

Essential Standard: Earth Systems (Weather & Climate) #6: Explain how the differences in surface temperature, due to the different heating and cooling rates of water and soil, affect the temperature and movement of the air above. 5.2.F.a	
Course: ___ Science Grade Level: ___	
<u>Score 4.0</u> More Complex Learning Goal	In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.
	<u>Score 3.5</u> In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications with partial success.
<u>Score 3.0</u> TARGET! “Challenging but Attainable”	<p>The student demonstrates an understanding of Explain how the differences in surface temperature, due to the different heating and cooling rates of water and soil, affect the temperature and movement of the air above by...</p> <ul style="list-style-type: none"> • Diagramming and explaining a land breeze by including: low and high pressure systems, where the warm and cool air are located, direction of the air movement, and time of day. • Diagramming and explaining a sea breeze by including: low and high pressure systems, where the warm and cool air are located, direction of the air movement, and time of day. <p>The student exhibits no errors or omissions on proficient questions.</p>
	<u>Score 2.5</u> The student exhibits no major errors or omissions regarding the score 2.0 elements and partial knowledge of the score 3.0 elements.
<u>Score 2.0</u> Simpler Learning Goal	<p>The student exhibits <i>no major</i> errors or omissions regarding the simpler details and processes, such as...</p> <ul style="list-style-type: none"> • Identifying the direction of air movement of low and high pressure systems • Identifying the traits of a sea breeze; direction of air movement, comparable temperature of water and land, time of day it occurs and location of the low and high pressure system • Identifying the traits of a land breeze; direction of air movement, comparable temperature of water and land, time of day it occurs and location of the low and high pressure system • Comparing the rate at which water and land heat and cool • Identifying what makes the wind blow (direction of air movement) <p>However, the student exhibits major errors or omissions with score 3.0 elements.</p>
	<u>Score 1.5</u> The student demonstrates partial knowledge of the score 2.0 elements but major errors or omissions regarding the score 3.0 elements.

<u>Score 1.0</u>	With help, the student demonstrates partial understanding of some of the score 2.0 elements and some of the score 3.0 elements.	
	<u>Score 0.5</u>	With help, the student demonstrates partial understanding of some of the score 2.0 elements but not the score 3.0 elements.