

Instructional Planning Tool *for Content and Language Development* [Example]

Unit	Weather and Water (Grade 6)		Science Standards	ES-4, PS-16, ES-11, TE-2.2	
			CCSS Literacy Standards	CCSS.ELA-LITERACY.RST.6-8.7 , CCSS.ELA-LITERACY.RST.6-8.3	
Essential Question	What causes the seasons?		WIDA ELD Standards	Language of Science Language of Social & Instructional	
Essential Science Concepts	<ul style="list-style-type: none"> - Seasons are related to the amount of solar energy transferred to Earth - The amount of energy transferred to Earth is affected by: latitude, tilt of the Earth’s axis, revolution, and rotation - A direct solar angle yields a high density of radiation; an indirect solar angle decreases the density of solar radiation 				
Academic Language	<p><u>Word level:</u> Tier II- pattern, latitude, tilt, northern hemisphere, southern hemisphere, diagram, infographic, Tier III- rotation, revolution, elliptical orbit, axis, summer/winter solstice, fall/spring equinox, solar radiation, solar angle, energy density</p> <p><u>Sentence level:</u> “_____ is affected by _____”; “_____ is caused by_____”; “_____ occurs because of _____”</p> <p><u>Discourse level:</u> expository paragraph</p>				
	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Content Objective	Calculate the hours of sunlight on the 21st of each month	Identify the relationships in the Sun-Earth model	Compare and contrast the solstices and equinoxes in each hemisphere	Conduct an investigation on solar angle	Explain how the tilt of the Earth’s axis and revolution produce seasons
Language Objective	Describe a pattern in hours of sunlight change	Describe the two movements of the Earth: rotation and revolution	Create a labeled diagram of the Earth’s revolution	Explain how the solar angle affects the density of solar radiation	Construct a scientific explanation and infographic on the cause of the seasons
Key Science Practices	<i># 4. Analyzing and interpreting data # 5. Using mathematics and computational thinking</i>	<i># 2. Developing and using models</i>	<i># 1. Asking questions (for science)</i>	<i># 3. Planning and carrying out investigations # 7. Engaging in argument from evidence</i>	<i># 6. Constructing explanations (for science)</i>
READ (Recount, Explain, Argue, Discuss)	Recount	Discuss	Explain	Argue	Explain
Instructional Strategies & Supports	<ul style="list-style-type: none"> - Table - Graph 	<ul style="list-style-type: none"> - Demonstration of Sun-Earth model - Interactive groups - Vocab list - Sentence frames 	<ul style="list-style-type: none"> - Video - Short text: Seasons - Vocab list 	<ul style="list-style-type: none"> - Investigation on solar angle - Vocab list - Sentence frames 	<ul style="list-style-type: none"> - Exemplar infographic - Exemplar explanation - Vocab list - Sentence starters - Paragraph frame

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