

ALIEF ISD 5E Planning Guide

Unit: _____ **Lesson:** _____ **Date:** _____ **Grade:** _____

Learner Outcomes (TEKS/ Key Concepts- measurable): The learner will—

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Formative Assessment/ Student Work:

Summative Assessment:

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Key Academic Vocabulary:

Process Skills Vocabulary:

5E	Planned Investigation/ Activities	Guiding Questions	Notes: Materials, Safety
<p>Engage Time: _____</p> <ul style="list-style-type: none"> • Spark interest in the topic • Assess prior knowledge • Focus learner’s thinking: ask a question, pose a problem (science notebook-ask a question...) 			
<p>Explore Time: _____</p> <ul style="list-style-type: none"> • Provide students the opportunity to explore/collaborate-- concrete, hands-on investigation • Guide students through descriptive, comparative, or experimental investigation (science notebook- plan investigation, gather data...) • Observe, facilitate, and guide students as they explore and build understanding of concepts 			

5E	Planned Investigation/ Activities	Guiding Questions	Notes: Materials, Safety
<p>Explain Time: _____</p> <ul style="list-style-type: none"> • Provide guiding questions for students to explain their understanding of concepts • Students explain concepts in their own words (science notebook- analyze data; draw conclusions...) • Ask for justification; clarify and correct misconceptions; introduce key academic vocabulary 			
<p>Extend Time: _____</p> <ul style="list-style-type: none"> • Provide opportunities for students to apply the concept to new situations or extend understanding and skill • Allow for cross-content integration (reading and writing science, thinking maps...) • Build a foundation to make a connection with the real-world (careers in science, scientific phenomenon...) 			
<p>Evaluate Time: _____</p> <ul style="list-style-type: none"> • Observe students/check for understanding throughout the different phases of 5E • Assess formally and/or informally student programs towards the learner outcome(s) • Allow students to reflect and assess their own learning of the topic/concept/ skill 			