

Appendix A: The 5E Model of Instruction

5E Definition	Teacher Behavior	Student Behavior
Engage		
<ul style="list-style-type: none"> • Generate interest • Access prior knowledge • Connect to past knowledge • Set parameters of the focus • Frame the idea 	<ul style="list-style-type: none"> • Motivates • Creates interest • Taps into what students know or think about the topic • Raises questions and encourages responses 	<ul style="list-style-type: none"> • Attentive in listening • Ask questions • Demonstrates interest in the lesson • Responds to questions demonstrating their own entry point of understanding
Explore		
<ul style="list-style-type: none"> • Experience key concepts • Discover new skills • Probe, inquire, and question experiences • Examine their thinking • Establish relationships and understanding 	<ul style="list-style-type: none"> • Acts as a facilitator • Observes and listens to students as they interact • Asks good inquiry-oriented questions • Provides time for students to think and to reflect • Encourages cooperative learning 	<ul style="list-style-type: none"> • Conducts activities, predicts, and forms hypotheses or makes generalizations • Becomes a good listener • Shares ideas and suspends judgment • Records observations and/or generalizations • Discusses tentative alternatives
Explain		
<ul style="list-style-type: none"> • Connect prior knowledge and background to new discoveries • Communicate new understandings • Connect informal language to formal language 	<ul style="list-style-type: none"> • Encourages students to explain their observations and findings in their own words • Provides definitions, new words, and explanations • Listens and builds upon discussion form students • Asks for clarification and justification • Accepts all reasonable responses 	<ul style="list-style-type: none"> • Explains, listens, defines, and questions • Uses previous observations and findings • Provides reasonable responses to questions • Interacts in a positive, supportive manner
Extend/Elaborate		
<ul style="list-style-type: none"> • Apply new learning to a new or similar situation • Extend and explain concept being explored • Communicate new understanding with formal language 	<ul style="list-style-type: none"> • Uses previously learned information as a vehicle to enhance additional learning • Encourages students to apply or extend the new concepts and skills • Encourages students to use terms and definitions previously acquired 	<ul style="list-style-type: none"> • Applies new terms and definitions • Uses previous information to probe, ask questions, and make reasonable judgments • Provides reasonable conclusions and solutions • Records observations, explanations, and solutions
Evaluate		
<ul style="list-style-type: none"> • Assess understanding (Self, peer and teacher evaluation) • Demonstrate understanding of new concept by observation or open-ended response • Apply within problem situation • Show evidence of accomplishment 	<ul style="list-style-type: none"> • Observes student behaviors as they explore and apply new concepts and skills • Assesses students' knowledge and skills • Encourages students to assess their own learning • Asks open-ended questions 	<ul style="list-style-type: none"> • Demonstrates an understanding or knowledge of concepts and skills • Evaluates his/her own progress • Answers open-ended questions • Provides reasonable responses and explanations to events or phenomena