

5E's Activities

5Es	Suggested Activity	What the Teacher Does	What the Student Does
Engage	<ul style="list-style-type: none"> Demonstration Reading Free Write Analyze a Graphic Organizer KWL Brainstorming 	<ul style="list-style-type: none"> Creates interest. Generates curiosity. Raises questions. Elicits responses that uncover what the students know or think about the concept/topic. 	<ul style="list-style-type: none"> Asks questions such as, Why did this happen? What do I already know about this? What can I find out about this? Shows interest in the topic.
Explore	<ul style="list-style-type: none"> Perform an Investigation Read Authentic Resources to Collect Information Solve a Problem Construct a Model 	<ul style="list-style-type: none"> Encourages the students to work together without direct instruction from the teacher. Observes and listens to the students as they interact. Asks probing questions to redirect the students' investigations when necessary. Provides time for students to puzzle through problems. 	<ul style="list-style-type: none"> Thinks freely but within the limits of the activity. Tests predictions and hypotheses. Forms new predictions and hypotheses. Tries alternatives and discusses them with others. Records observations and ideas. Suspends judgement.
Explain	<ul style="list-style-type: none"> Student Analysis & Explanation Supporting Ideas with Evidence Structured Questioning Reading and Discussion Teacher Explanation Thinking Skill Activities: compare, classify, error analysis 	<ul style="list-style-type: none"> Encourages the students to explain concepts and definitions in their own words. Asks for justification (evidence) and clarification from students. Formally provides definitions, explanations, and new labels. Uses students' previous experiences as basis for explaining concepts. 	<ul style="list-style-type: none"> Explains possible solutions or answers to others. Listens officially to others' explanations. Questions others' explanations. Listens to and tries to comprehend explanations the teacher offers. Refers to previous activities. Uses recorded observations in explanations.
Extend	<ul style="list-style-type: none"> Problem Solving Decision Making Experimental Inquiry Think Skill Activities: compare, classify, apply 	<ul style="list-style-type: none"> Expects the students to use formal labels, definitions, and explanations provided previously. Encourages the students to apply or extend the concepts and skills in new situations. Reminds the students of alternative explanations. Refers the students to existing data and evidence and asks, What do you already know? Why do you think...? Strategies from Explore apply here also. 	<ul style="list-style-type: none"> Applies new labels, definitions, explanations, and skills in new, but similar situations. Uses previous information to ask questions, propose solutions, make decisions, and design experiments. Draws reasonable conclusions from evidence. Records observations and explanations. Checks for understandings among peers.
Evaluate	<ul style="list-style-type: none"> Any of the Above Develop a Scoring Tool or Rubric Test (SR, BCR, ECR) Performance Assessment Produce a Product Journal Entry Portfolio 	<ul style="list-style-type: none"> Observes the students as they apply new concepts and skills. Assesses students' knowledge and/or skills. Looks for evidence that the students have changed their thinking or behaviors. Allows students to assess their own learning and group-process skills. Asks open-ended questions, such as: Why do you think...? What evidence do you have? What do you know about x? How would you explain x? 	<ul style="list-style-type: none"> Answers open-ended questions by using observations, evidence, and previously accepted explanations. Demonstrates an understanding or knowledge of the concept or skill. Evaluates his or her own progress and knowledge. Asks related questions that would encourage future investigations.