

Assessment Scale for Problem-Solving Grades 4-8				
Criteria	Level 1	Level 2	Level 3	Level 4
Understanding the problem	<input type="checkbox"/> shows major misunderstanding of the problem	<input type="checkbox"/> identifies some of the requirements of the problem	<input type="checkbox"/> completely identifies the requirements of the problem <input type="checkbox"/> identifies relevant and irrelevant information	<input type="checkbox"/> expands on the problem by giving insights beyond the problem <input type="checkbox"/> deletes extraneous information
Understanding concepts	<input type="checkbox"/> communicates only a limited understanding of the concepts required to solve the problem	<input type="checkbox"/> communicates some understanding of the concepts required to solve the problem	<input type="checkbox"/> communicates a sound understanding of the concepts required to solve the problem	<input type="checkbox"/> communicates a thorough and/or insightful understanding of the concepts required to solve the problem
Making a plan	<input type="checkbox"/> requires significant assistance to make a plan <input type="checkbox"/> requires significant assistance to choose one strategy	<input type="checkbox"/> requires some assistance to develop a plan <input type="checkbox"/> chooses one strategy from a limited range	<input type="checkbox"/> independently develops an appropriate plan <input type="checkbox"/> chooses from a range of strategies	<input type="checkbox"/> independently develops an effective plan <input type="checkbox"/> evaluates a range of strategies and demonstrates flexibility when applying them
Carrying out the plan	<input type="checkbox"/> has difficulty following through on a plan <input type="checkbox"/> is unable to reach a solution	<input type="checkbox"/> follows some of the steps in a plan <input type="checkbox"/> partially solves the problem <input type="checkbox"/> explains the process in a disorganized way	<input type="checkbox"/> follows through on a plan <input type="checkbox"/> solves the problem <input type="checkbox"/> generally explains the process and solution	<input type="checkbox"/> applies a plan and modifies it as necessary <input type="checkbox"/> solves the problem using a sophisticated and efficient strategy <input type="checkbox"/> coherently explains the process and solution
Applying procedures	<input type="checkbox"/> makes major errors in using mathematical procedures	<input type="checkbox"/> makes several errors in using mathematical procedures	<input type="checkbox"/> makes few minor errors in using mathematical procedures	<input type="checkbox"/> uses mathematical procedures correctly