

**GOALS 2000 PROBLEM SOLVING RUBRIC  
GRADES 6-8**

	<b>No Evidence 1</b>	<b>Limited Evidence 2</b>	<b>Moderate Evidence 3</b>	<b>Strong Evidence 4</b>
<b>Mathematical Communication</b>	<ul style="list-style-type: none"> <li>Explanation lacks several key components.</li> </ul>	<ul style="list-style-type: none"> <li>Makes attempts to explain reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>Partially explains reasoning; may be repetitious.</li> </ul>	<ul style="list-style-type: none"> <li>Communicates mathematical reasoning to persuade, teach, help, or influence.</li> </ul>
<b>Mathematical Concepts</b>	<ul style="list-style-type: none"> <li>Unable to identify or apply mathematical concepts or procedures needed.</li> </ul>	<ul style="list-style-type: none"> <li>Can use an algorithm or procedure with some accuracy and understands some basic conceptual connections.</li> </ul>	<ul style="list-style-type: none"> <li>Uses manipulatives and other forms of representation to demonstrate concepts.</li> </ul>	<ul style="list-style-type: none"> <li>Applies correct mathematical procedures and algorithms in new or complex situations.</li> </ul>
<b>Mathematical Representation</b>	<ul style="list-style-type: none"> <li>Work is often confusing.</li> <li>Often omits required charts, diagrams, or graphs or makes major errors.</li> </ul>	<ul style="list-style-type: none"> <li>Most work is clear; may be confusing in places; some omissions or errors.</li> <li>Constructs required charts, diagrams, or graphs with some errors.</li> </ul>	<ul style="list-style-type: none"> <li>Work is generally clear, may include minor errors.</li> <li>Constructs required charts, diagrams, or graphs appropriately.</li> </ul>	<ul style="list-style-type: none"> <li>Work is detailed, clearly labeled and logically organized.</li> <li>Constructs required charts, diagrams, or graphs effectively.</li> </ul>
<b>Mathematical Reasoning</b>	<ul style="list-style-type: none"> <li>Little evidence of mathematical reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>Some evidence of mathematical reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>Uses effective mathematical reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>Uses complex and refined mathematical reasoning.</li> </ul>