

Mathematics Problem-Solving Rubric Example

| Criteria | 4 Exceeds Expectations | 3 Meets Expectations | 2 Approaching Expectations | 1 Below Expectations |
|------------------------------|--|---|--|--|
| Understanding the Problem | Student clearly demonstrates complete understanding of the problem. All relevant information is identified and interpreted accurately. | Student demonstrates understanding of the problem. Most information is identified and interpreted accurately. | Student shows partial understanding of the problem. Some information is missing or misinterpreted. | Student shows little or no understanding of the problem. Information is missing or misinterpreted. |
| Mathematical Strategy | An effective and thorough strategy is selected, clearly matching the problem requirements. | An appropriate strategy is used and addresses the key aspects of the problem. | The strategy is incomplete, inefficient, or only partially appropriate for the problem. | The strategy is inappropriate or ineffective. No clear plan is evident. |
| Mathematical Accuracy | All calculations and procedures are correct and clearly shown. | Most calculations and procedures are correct and clearly shown. | Some calculations and procedures are correct; errors are present or work is unclear. | Frequent errors are made; work is mostly incorrect or not shown. |
| Reasoning & Explanation | Solution is fully explained, with logical reasoning that is easy to follow. | Most steps are explained and the reasoning is mostly logical and clear. | Some explanation is provided, but reasoning may be incomplete or hard to follow. | Explanation is missing or very difficult to follow. |
| Presentation & Communication | Solution is exceptionally clear, organized, and easy to read. | Solution is generally clear and organized. | Some organization is evident but solution may be hard to follow. | Solution is disorganized or very difficult to follow. |