

POWAY UNIFIED SCHOOL DISTRICT
Fifth Grade Problem Solving Scoring Rubric

6 - EXCEPTIONAL

- **Complete understanding** of this problem - identifies important elements of the problem
- **Clearly articulates** thought processes with symbols **and** narrative
- Shows **symbolic processes** using equations, charts, diagrams **or** examples
- **Computation** demonstrates mastery of the problem, including the **correct answer**
- Response shows **connections** or **extensions** within the context of this problem or to other math ideas.

5 - STRONG (A response cannot receive a 5 without including symbols, narrative, and a correct answer.)

- **Good understanding** of this problem
- **Articulates** thought processes with symbols **and** narrative
- Shows **at least one symbolic process** (i.e., equations, charts, diagrams, or examples)
- **Computation** demonstrates understanding of the problem, including the **correct answer**

4 - CAPABLE (A response cannot receive a score higher than 4 without including both symbols and narrative and a correct answer.)

- **Understands** most of the problem
- **Articulates** thought processes with symbols **and/or** narrative
- Shows **at least one representation** - words **or** symbolic processes (i.e., equations, charts, diagrams, examples)
- **Computation** demonstrates understanding of the problem with possible minor flaws, may or may not include the correct answer (A minor flaw is a careless error that does not require reteaching.)

3 - DEVELOPING

- **Some understanding** of the problem
- **Attempts to articulate** thought processes with symbols and/or narrative, but is not clear or complete
- Attempts a **representation** of the problem - words **or** symbolic processes (i.e., equations, charts, diagrams, examples)
- **Computation** demonstrates partial understanding of the problem, may or may not include the correct answer

2 - LIMITED

- **Understands** only fragments of the problem
- **Begins but fails to articulate** thought processes with symbols or narrative
- **Any representation** of the problem is incorrect or incomplete
- **Computation** demonstrates poor understanding of the problem, may or may not include the correct answer

1 - EMERGENT

- **Attempts**, but demonstrates **no understanding** of the problem
- **Unable to articulate** thought processes with symbols or narrative
- **Unable to generate any representations** of the problem
- **No solution, or incorrect solution, or CORRECT SOLUTION WITH NO SUPPORT**

0 - NO RESPONSE, INAPPROPRIATE RESPONSE

- No attempt
- Response does not fit that given problem/task