

POWAY UNIFIED SCHOOL DISTRICT
Problem Solving Scoring Rubric

6—EXCEPTIONAL

- **Complete understanding** of the 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 the 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 (To receive a score higher than a 4, the response must include 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, or 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, or 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 the given problem/task.