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| **Content: Writing and Evaluating Powers** | | | |
| Identifies the exponent and base in a given power  “I know the power 25 has base 2 and exponent 5.  I know the power 5 squared or 52 has base 5 and exponent 2.” | Represents powers in expanded form and standard form  “I can represent powers in expanded form and standard form.”  34 = 3 × 3 × 3 × 3  = 81  43 = 4 × 4 × 4  = 64 | Explains the role of parentheses in powers  “The exponent applies only to the base of the power and the brackets help identify the base.”  24 = 16  ‒24 = ‒16  (‒24) = ‒16  (‒2)4 = 16  ‒(‒24) = 16 | Solves problems involving powers  “Since the patch in the pond doubles every day and it is covered on day 48, then the day before it would be half covered.” |
| **Observations/Documentation** | | | |
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| **Competency: Problem Solving in a Group Situation** | | | |
| Engages in problem solving experiences in a group  “We can work as a group to approach and explore a problem. I can listen to the ideas of others and share my own ideas.” | Uses tools and representations to explore a problem  “We can use a table to organize our data. We can use a calculator and repeated multiplication to explore the problem further.” | Develops, demonstrates, and applies mathematical understanding    “We recognize this as a problem that applies our understanding of powers.” | Perseveres in the problem-solving process to deepen understanding and connections  “That was challenging, but as a group, we were able to keep trying and learning.” |
| **Observations/Documentation** | | | |
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