| Cluster Summary for: Understand properties of | Domain: Operations & Algebraic Thinking | | | |
|---|---|--------------------|---------------------------|--|
| multiplication and the relationship between | Cluster Priority: (check) X Major Cluster | Supporting Cluster | Additional Cluster | |
| multiplication and division. | | | | |
| Grade Level: 3 | | | | |

| SCALE | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 | | |
|--|---|---|--|--|--|
| 4: Advanced | | | | | |
| In addition to score 3, in-depth inferences and applications go beyond Mathematics, are applied to other disciplines, and are utilized in real-world contexts. | | | | | |
| 3: Proficient | Students apply commutative property | Students apply commutative and | Students apply commutative, | | |
| The student exhibits no major errors or | to solve multiplication and division | associative properties to solve | associative and distributive | | |
| omissions. | problems. | multiplication and division problems. | properties to solve multiplication and | | |
| | | Students relate division to finding a | division problems. Students relate | | |
| | | missing factor. | division to finding a missing factor. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Droficionau Evample | | | | | |
| Proficiency Example | | | | | |
| | | | | | |
| | | | | | |
| 2: Partially Proficient | | | | | |
| There are no major errors or omissions re | garding the simpler details and processes | as the student recognizes or recalls termin | ology and performs basic processes. | | |
| However, the student exhibits major errors or omissions regarding the more complex ideas and processes. | | | | | |
| 1: Novice | | | | | |
| With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | | | | |
| 0: No Evidence | | | | | |
| Even with help, no understanding or skill demonstrated. | | | | | |
| Mathematical Practices Best Taught in this Cluster: (check those that apply) | | | | | |
| X Make sense of problems & preserve in solving them X Reason abstractly & quantitatively X Construct viable arguments & critique the reasoning of others | | | | | |
| X Model with mathematics X Use appropriate tools strategically X Attend to precision X Look for and make use of structure X Look for & express regularity in | | | | | |
| repeated reasoning | | | | | |
| Key Vocabulary for the Cluster: | | | | | |
| operation, multiply, divide, factor, product, quotient, strategies, (properties)-rules about how numbers work | | | | | |
| | | | | | |