Grade Level:4th Grade
Course Name:Math

Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 4th Grade COURSE NAME: Math
MEASUREMENT TOPIC:Use Place Value and Properties of Operations to Multiply Multi-Digit Whole Numbers

4	In addition to Score 3.0, make in-depth inferences and applications. ☐ Identify and explain errors in a given strategy for multiplying whole numbers.
3	☐ **Multiply two-digit by two-digit numbers, using strategies based on place value and the properties of operations.** ☐ **Illustrate and explain using equations, rectangular arrays, and area models** ☐ **Multiply a four-digit whole number by a one-digit whole number using strategies based on place value and the properties of operations.** ☐ **Illustrate and explain using equations, rectangular arrays, and area models** ☐ **Multiply a three whole number by a one-digit whole number using strategies based on place value and the properties of operations.** ☐ **Illustrate and explain using equations, rectangular arrays, and area models**
2	☐ Multiply a two-digit whole number by a one-digit whole number. ☐ Illustrate and explain using equations, rectangular arrays, and area models
1	☐ With help, a partial understanding of some of the simpler details and processes, and some of the more complex ideas and processes.

Key Vocabulary:properties of operations, multiplication, product, factors and multiples, compose, decompose, digit, strategy, place value, equation, a rectangular array, multiples of 10, **partial product**, **area model**

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