



# QUINCY PUBLIC SCHOOLS

## Grade Three Mathematics Grading Rubric

### **Multiplies whole numbers within 100 fluently.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to perform multiplication of whole numbers within 100 with accuracy.	Sometimes performs multiplication of whole numbers within 100.	Consistently performs multiplication of whole numbers within 100.	Exceeds the standard by independently and accurately performing and applying multiplication of whole numbers within 100.

### **Divides whole numbers within 100 fluently.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to perform division of whole numbers within 100 with accuracy.	Sometimes performs division of whole numbers within 100.	Consistently performs division of whole numbers within 100.	Exceeds the standard by independently and accurately performing and applying division of whole numbers within 100.

### **Understands properties of multiplication and division and the relationship between multiplying and dividing.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Unable to rarely able to demonstrate an understanding of the properties of multiplication and division and the relationship between multiplying and dividing.	Demonstrates partial understanding of the properties of multiplication and division and the relationship between multiplying and dividing.	Demonstrates an understanding of the properties of multiplication and division and the relationship between multiplying and dividing.	Exceeds the standard by independently and accurately demonstrating an understanding of the properties of multiplication and division and the relationship between multiplying and dividing at an advanced level.

## Number and Operations—Fractions

### Understands unit fractions as part of a whole.

1	2	3	4
Rarely or unable to demonstrate an understanding of unit fractions as part of a whole.	Sometimes demonstrates an understanding of unit fractions as part of a whole.	Consistently demonstrates an understanding of unit fractions as part of a whole.	Exceeds the standard by independently and accurately demonstrating an understanding of unit fractions as part of a whole at an advanced level.

### Understands, recognizes, and generates equivalent fractions.

1	2	3	4
Rarely or unable to demonstrate an understanding of equivalent fractions.	Sometimes demonstrates an understanding of equivalent fractions.	Consistently demonstrates an understanding of equivalent fractions.	Exceeds the standard by independently and accurately demonstrating an understanding of equivalent fractions at an advanced level.

### Understands and represents a fraction as a number on a number line.

1	2	3	4
Rarely or unable to demonstrate an understanding of fractions on a number line.	Sometimes demonstrates an understanding of fractions on a number line.	Consistently demonstrates an understanding of fractions on a number line.	Exceeds the standard by independently and accurately demonstrating an understanding of fractions on a number line at an advanced level.

### Compares two fractions with the same numerator or the same denominator by reasoning about their size.

1	2	3	4
Rarely or unable to compare fractions.	Sometimes able to compare fractions.	Consistently able to compare fractions.	Exceeds the standard by independently and accurately comparing fractions at an advanced level.

## Numbers and Operations in Base Ten

### Uses place value understanding and properties of operations to perform multi-digit arithmetic.

1	2	3	4
Rarely or unable to demonstrate an understanding of place value with whole	Sometimes demonstrates an understanding of place value with whole	Consistently demonstrates an understanding of place value with whole	Exceeds the standard by independently and accurately demonstrating an

numbers.	numbers.	numbers.	understanding of place value with whole numbers at an advanced level.
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**Rounds whole numbers to the nearest ten and hundred.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to demonstrate an understanding of rounding.	Sometimes demonstrates an understanding of rounding.	Consistently demonstrates an understanding of rounding.	Exceeds the standard by independently and accurately demonstrating an understanding of rounding at an advanced level.

**Measurement and Data**

**Tells and writes time to the nearest minute and measures time intervals.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to tell and write time to the nearest minute and measure time intervals.	Sometimes able to tell and write time to the nearest minute and measure time intervals.	Consistently able to tell and write time to the nearest minute and measure time intervals.	Exceeds the standard by independently and accurately able to tell and write time to the nearest minute and measure time intervals at an advanced level.

**Solves problems involving measurement; volume, mass, and length.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to measure and estimate liquid volumes, masses of objects and length.	Sometimes able to measure and estimate liquid volumes, masses of objects and length.	Consistently able to measure and estimate liquid volumes, masses of objects lengths.	Exceeds the standard by independently and accurately able to measure and estimate liquid volume, masses of objects and length at an advanced level.

**Represents and interprets data using graphs.**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Rarely or unable to represent and interpret data.	Sometimes able to represent and interpret data.	Consistently able to represent and interpret data.	Exceeds the standard by independently and accurately able to represent and interpret data at an advanced level.

**Recognizes and measures area and perimeter using a variety of methods.**

1	2	3	4
Rarely or unable to recognize and measure area and perimeter.	Sometimes able to recognize and measure area and perimeter.	Consistently able to recognize and measure area and perimeter.	Exceeds the standard by independently and accurately able to recognize and measure area and perimeter at an advanced level.

**Geometry**

**Understands that shapes in different categories may share properties.**

1	2	3	4
Rarely or unable to understand that shapes in different categories may share properties.	Sometimes able to understand that shapes in different categories may share properties.	Consistently able to understand that shapes in different categories may share properties.	Exceeds the standard by independently and accurately able to understand at an advanced level that shapes in different categories may share properties.

**Partitions shapes into parts of equal areas and expresses the area of each part as a unit fraction of a whole.**

1	2	3	4
Rarely or unable to partition shapes into parts of equal areas and express the area of each part as a unit fraction of a whole.	Sometimes able to partition shapes into parts of equal areas and express the area of each part as a unit fraction of a whole.	Consistently able to partition shapes into parts of equal areas and express the area of each part as a unit fraction of a whole.	Exceeds the standard by independently and accurately able to partition shapes into parts of equal areas and express the area of each part as a unit fraction of a whole at an advanced level.

**Mathematical Reasoning**

**Solves problems and communicates strategies and solutions orally and in writing.**

1	2	3	4
Rarely or unable to communicate strategies and solutions orally or in writing.	Sometimes able to communicate strategies and solutions orally or in writing.	Consistently able to communicate strategies and solutions orally or in writing.	Exceeds the standard by independently and accurately able to communicate strategies and solutions orally or in writing at an advanced level.

Updated: 4/4/2016