

QUINCY PUBLIC SCHOOLS

Grade Three Mathematics Grading Rubric

Multiplies whole numbers within 100 fluently.

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

Divides whole numbers within 100 fluently.

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

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

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1	2	3	4
Unable to rarely able to	Demonstrates partial	Demonstrates an	Exceeds the standard
demonstrate an	understanding of the	understanding of the	by independently and
understanding of the	properties of	properties of	accurately
properties of	multiplication and	multiplication and	demonstrating an
multiplication and	division and the	division and the	understanding of the
division and the	relationship between	relationship between	properties of
relationship between	multiplying and	multiplying and	multiplication and
multiplying and	dividing.	dividing.	division and the
dividing.			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	Sometimes	Consistently	Exceeds the standard
demonstrate an	demonstrates an	demonstrates an	by independently and
understanding of unit	understanding of unit	understanding of unit	accurately
fractions as part of a	fractions as part of a	fractions as part of a	demonstrating an
whole.	whole.	whole.	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	Sometimes	Consistently	Exceeds the standard
demonstrate an	demonstrates an	demonstrates an	by independently and
understanding of	understanding of	understanding of	accurately
equivalent fractions.	equivalent fractions.	equivalent fractions.	demonstrating an
			understanding of
			equivalent fractions at
			an advanced level.

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

onditional and represents a necessity and an analysis of a name of the name of			
1	2	3	4
Rarely or unable to	Sometimes	Consistently	Exceeds the standard
demonstrate an	demonstrates an	demonstrates an	by independently and
understanding of	understanding of	understanding of	accurately
fractions on a number	fractions on a number	fractions on a number	demonstrating an
line.	line.	line.	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	Sometimes able to	Consistently able to	Exceeds the standard
compare fractions.	compare fractions.	compare fractions.	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	Sometimes	Consistently	Exceeds the standard
demonstrate an	demonstrates an	demonstrates an	by independently and
understanding of place	understanding of place	understanding of place	accurately
value with whole	value with whole	value with whole	demonstrating an

numbers.	numbers.	numbers.	understanding of place
			value with whole
			numbers at an
			advanced level.

Rounds whole numbers to the nearest ten and hundred.

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

Measurement and Data

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

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

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

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

Represents and interprets data using graphs.

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

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

necognizes and medical es area and permitted desing a variety of medicals.			
1	2	3	4
Rarely or unable to	Sometimes able to	Consistently able to	Exceeds the standard
recognize and measure	recognize and measure	recognize and measure	by independently and
area and perimeter.	area and perimeter.	area and perimeter.	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	Sometimes able to	Consistently able to	Exceeds the standard
partition shapes into	partition shapes into	partition shapes into	by independently and
parts of equal areas	parts of equal areas	parts of equal areas	accurately able to
and express the area of	and express the area of	and express the area of	partition shapes into
each part as a unit	each part as a unit	each part as a unit	parts of equal areas
fraction of a whole.	fraction of a whole.	fraction of a whole.	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	Sometimes able to	Consistently able to	Exceeds the standard
communicate	communicate	communicate	by independently and
strategies and	strategies and	strategies and	accurately able to
solutions orally or in	solutions orally or in	solutions orally or in	communicate
writing.	writing.	writing.	strategies and
			solutions orally or in
			writing at an advanced
			level.