



MAP²D Pacing Guide

Description: The MAP²D Pacing Guide was created to help teachers address the California Mathematics Standards for the grade level. This is a suggested pacing. Teachers may spend more or less time on each lesson, depending on their students' needs. However, the trimester exams need to be given within a week of the scheduled dates.

Key Standards: The standards are sequenced to be taught before the state test. The following acronyms are used in this document:

NS: Number Sense

AF: Algebra and Functions

MG: Measurement and Geometry

SDAP: Statistics, Data Analysis and Probability

Assessments: The guide also indicates an approximate date when a Standards Based Assessment may be given. Teachers may give the Standards Based Assessments at any time during the current trimester based on student readiness. A “window of time” is given for the administration of the trimester exams.

Resources: Page numbers of the student text and student resource books (3 in 1 Practice Book and Success with the Math Standards) are listed for easy planning. Lessons with Instructional Strategy slides to be referenced are indicated with an asterisk (*)

Grade 4 MAP²D Pacing Traditional Schedule 2009 – 2010

TRIMESTER 1(September 9 – November 20)

Problem of the Day: Word Problems (MAP2D Strategy: UPS - Understand, Plan and Solve)

Sept. 9 – Sept.11	Pre- Assessments:
	❖ Administer Trimester One Practice Exam
	❖ Give “It’s All About the Facts” Diagnostics

Sept. 9 – Oct. 2	Chapter 1, 2, 3, 4 & 19	Place Value	3 in 1 Practice Book
Instructional Days: 18	Number of Lessons: 12	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.1	1.3	Place Value Through Millions	pgs.10-11	RW 3 PW3
NS 1.2	1.4	Compare Whole Numbers	pgs. 12-15	RW4 PW4
NS 1.2	1.5	Order Whole Numbers	pgs. 16-19	RW5 PW5
NS 1.3	2.2	*Round Whole Numbers Through Millions	pgs. 34-37	RW8 PW8
NS 3.1	3.2	Subtract Across Zeros	pgs. 62-63	RW14 PW14
NS 3.1	3.3	Add and Subtract Greater Numbers	pgs. 64-67	RW15 PW15
AF 1.0	4.1	Addition Properties	pgs. 78-79	RW17 PW17
AF 1.2	4.2	*Write and Evaluate Expressions	pgs. 80-81	RW18 PW18
AF 1.1	4.3	*Expressions with Variables	pgs. 82-83	RW19 PW19
AF 1.1	4.4	*Addition and Subtraction Equations	pgs. 84-86	RW20 PW20
AF 2.1	4.5	*Add Equals to Equals	pgs. 88-91	RW21 PW21
AF 1.5	4.7	*Patterns: Find a Rule	pgs.96-97	RW23 PW23

Give Standards Based Assessment #1: NS & AF: Place Value, Addition and Subtraction

*Indicates MAP²D Instructional Strategies Available

Bold type indicates lesson used more than once

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Oct.5 – Nov.3	Chapter 6, 7, 9, 10 & 11	Multiplication & Division and Equations	3 in 1 Practice Book
Instructional Days: 22	Number of Lessons: 17	(On-going math facts review)	

Re-administer Trimester One Practice Exam Week of October 27

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
AF 1.0	6.1	Multiplication Properties	pgs. 136-138	RW32 PW32
AF 1.2	6.3	Expressions with Parentheses (*Order of Operations)	pgs. 142- 145	RW34 PW34
AF 1.1, 1.2, 1.3	6.4	* Write & Evaluate Expressions	pgs. 146-149	RW35 PW35
AF 1.1	6.5	*Multiplication and Division Equations	pgs. 150-153	RW36 PW36
AF 2.2	6.6	*Multiply Equals by Equals	pgs. 154-157	RW37 PW37
AF 1.5	6.8	*Patterns: Find a Rule	pgs. 162-163	RW39 PW39
NS3.2	7.1	Multiplication Patterns	pgs. 176-177	RW40 PW40
NS 1.3, NS 3.0	7.2	Estimate Products	pgs. 178-179	RW41 PW41
NS 3.0	7.4 & 7.5	3-Digit by 1-Digit Multiplication	pgs. 184-188	RW43-45 PW43-45
NS 3.2, 3.3	9.2	*2-Digit by 2-Digit Multiplication	pgs. 220-222	RW52 PW52
NS 3.2, 3.3	9.3	Multiply 2 and 3 Digit Numbers and Money	pgs.224-226	RW53 PW53
NS 3.2, 3.3	9.4	Multiply Greater Numbers	pgs.228-229	RW54 PW54
NS 3.2, 3.4	10.5	Division Patterns	pgs. 254-255	RW60 PW60
NS 1.3, 3.2, 3.4	10.6	Estimate Quotients	pgs. 254-255	RW61 PW61
NS 3.2, 3.4	10.7	Place the First Digit	pgs. 258-260	RW62 PW62
NS 3.2, 3.4	11.2	*Divide 3-Digit Numbers and Money	pgs. 270-273	RW64 PW64
NS 3.2, 3.4	11.4	Divide Greater Numbers	pgs. 278-279	RW66 PW66

Give Standards Based Assessment #2: NS & AF: Multiplication and Division

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Bold type indicates lesson used more than once

Nov.4 – Nov.20	Chapter 18 & 19	Decimals	3 in 1 Practice Book
Instructional Days: 12	Number of Lessons: 9	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.5, 1.7	16.1	Read and Write Fractions	pgs. 414-417	RW95 PW95
NS 1.6	18.1	*Relate Fractions and Decimals (Only with Denominators of 10 and 100)	pgs. 468-471	RW107 PW107
NS 1.6, 1.7	18.3	*Relate Mixed Numbers and Decimals (Only with Denominators of 10 and 100)	pgs. 474-477	RW109 PW109
NS 1.2, 1.9	18.4	Compare Decimals	pgs. 478-479	RW110 PW110
NS 1.2, 1.9	18.5	Order Decimals	pgs. 480-481	RW111 PW111
NS 1.2, 1.9	18.5	Order Decimals (number line)	pgs. 480-481	RW111 PW111
NS 2.2	19.1	*Round Decimals	pgs. 492-493	RW113 PW113
NS 2.1, 2.2	19.2	Estimate Decimal Sums and Differences	pgs. 494-495	RW114 PW114
NS 2.1	19.5	*Record Addition and Subtraction	pgs. 500-503	RW117 PW117

Give Standards Based Assessment #3: NS: Fractions and Decimals

November 19 - 20

Review and Administer Trimester One Exam (20 items)

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TRIMESTER 2 (November 23 – March 5)

Problem of the Day: Review of Tri 1 content (Use Item Analysis Grid)

Nov. 23 – Dec. 18	Chapters 12, 16 & 17	Fractions	3 in 1 Practice Book
Instructional Days: 18	Number of Lessons: 5	(On-going math facts review)	

Administer Trimester Two Practice Exam

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.5, 1.7	16.1	Read and Write Fractions	pgs. 414-417	RW95 PW95
NS 1.5, 1.7, 1.9	16.3	*Compare Fractions	pgs. 422-425	RW97 PW97
NS 1.5, 1.7, 1.9	16.4	Order Fractions (number line)	pgs. 422-425	RW97 PW97
NS 1.9	16.5	*Read and Write Mixed Numbers	pgs. 426-429	RW98 PW98
NS 1.9, 1.5	16.6	Compare Mixed Numbers	pgs. 430-432	RW100 PW100
NS 1.9, 1.5	16.6	*Order Mixed Numbers (number line)	pgs. 430-432	RW100 PW100

Winter Recess (Dec. 21 – Jan. 1)

Jan. 4 – Jan. 15	Chapters 12, 16 & 17 (Continues)	Fractions	3 in 1 Practice Book
Instructional Days: 10	Number of Lessons: 5	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 4.1, 4.2	12.2	*Prime and Composite Numbers	pgs. 292-294	RW68 PW68
NS 4.1, 4.2	12.4	*Find Prime Factors	pgs. 298-299	RW70 PW70
NS 1.5, NS1.7	16.2	*Model Equivalent Fractions *Simplest Form	Pgs. 418-421 Instructional Strategies	RW96 PW96
NS1.5	17.3	*Addition and Subtraction of Fractions (simplify)	pgs. 448-451	RW104 PW104
NS1.5	17.5	Add and Subtract Mixed Numbers (simplify)	pgs. 456-458	RW106 PW106

Give Standards Based Assessment #4: NS: Fractions

Re-administer Trimester Two Practice Exam week of February 16

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Jan. 19 – Feb. 5	Chapters 20 & 21	Measurement & Geometry	3 in 1 Practice Book
Instructional Days: 14	Number of Lessons: 10	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
MG 1.1, 2.3	20.1	Points, Lines & Rays	pgs. 518-519	RW119 PW119
MG 3.5	20.2	Classify Angles	pgs. 520-521	RW120 PW120
MG3.5	21.2	Turns	Pgs. 548-549	RW128 PW128
MG 3.1	20.3	Line Relationships	pgs.522-523	RW121 PW121
MG 3.8	20.4 & 20.6	Polygons and Quadrilaterals	pgs. 524-527, 530-532	RW122 & 124 PW122 & 124
MG 3.7	20.5	Classify Triangles	pgs. 528-529	RW123 PW123
MG 3.2	20.7	*Circles	pgs. 534-535	RW125 PW125
MG 3.3	21.1	Congruent Figures	pgs. 546-547	RW127 PW127
MG 3.4	21.3	Symmetry (Bilateral and Rotational)	pgs. 550-553	RW129 PW129
MG 3.6	22.1 & 22.2	Solid Figures & Nets	pgs. 566-568, 570-571	RW132 & 133 PW132 & 133

Give Standards Based Assessment #5: MG: Geometry

Feb. 9 – Mar. 2	Chapters 15 & 23	Measurement & Geometry	3 in 1 Practice Book
Instructional Days: 15	Number of Lessons: 5	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
MG 1.4	23.4	*Find Perimeter (ONLY rectangles and squares)	pgs. 600-603	RW139 PW139
MG 1.4	23.6 & 23.7	*Find Area (ONLY rectangles and squares)	pgs. 606-611	RW141 & 142 PW141 & 142
MG 1.4	23.8	*Area of Complex Figures	pgs. 612-615	RW143 PW143
MG 1.2, 1.3, AF 1.1	23.9	Relate Perimeter and Area	pgs. 616-618	RW144 PW144
NS 1.8	15.1	Temperature	pgs. 374-375	RW87 PW87

Give Standards Based Assessment #6: MG: Measurement

March 3 – 5

Review and Administer Trimester Two Exam (25 items)

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TRIMESTER 3 (March 8 – May 28)

POD: Review of Tri 1 and Tri 2 content (Use Item Analysis Grid)

Administer Trimester Three Practice Exam

Mar.8 - 19	Chapters 14 & 15	Graphing and Algebra	3 in 1 Practice Book
Instructional Days: 10	Number of Lessons: 5	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.8	15.2	*Explore Negative Numbers (Number Line, Money, and Patterns)	pgs. 378-380	RW88 PW88
MG 1.1, 2.1, 2.3	14.4 & 15.4	Graph Ordered Pairs on a Coordinate Plane (All Four Quadrants)	pgs. 350-351 & 386-388	RW82 & 90 PW 82 & 90
AF 1.5	15.6	*Use an Equation	pgs. 394-397	RW92 PW92
MG 2.1, AF 1.4, 1.5	15.7	*Graph a Function	pgs. 398-399	RW93 PW93
MG 2.2, 2.3	15.5	*Lengths on a Coordinate Plane (All Four Quadrants)	pgs. 390-393	RW91 PW91

Give Standards Based Assessment #7: AF: Graphing and Algebra

Mar. 22 – Apr.2	Chapters 4 & 6	Algebra Review	3 in 1 Practice Book
Instructional Days: 10	Number of Lessons: 7	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
AF 1.1, 1.2, 1.3	4.2 & 4.3	*Write & Evaluate Algebraic Exp	pgs. 80-81, 82-83	RW18/19 PW18/19
AF 1.1, 1.5	4.4	*Addition and Subtraction of Equations	pgs. 84-86	RW20 PW20
AF 2.1	4.5	*Add Equals to Equals	pgs. 88-91	RW21 PW21
AF 1.1, 1.2, 1.3	6.2, 6.3 , 6.4	*Order of Operations *Write & Evaluate Expressions	pgs. 140-141 pgs. 142-145, 146-149	RW33-35 PW33-35
AF 1.1	6.5	*Multi. and Division of Equations	pgs. 150-153	RW36 PW36
AF 2.2	6.6	*Multiply Equals by Equals	pgs. 154-157	RW37 PW37
AF 1.5	4.7 & 6.8	*Patterns: Find a Rule	pgs. 96-97, 162-163	RW23 & 39 PW23 & 39

Give Standards Based Assessment #8: AF: Algebra Review

Spring Recess (April 5-9)

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Apr. 12 – Apr. 23	Chapters 13, 14 & 24	Probability and Statistics	3 in 1 Practice Book
Instructional Days: 10	Number of Lessons: 8	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
SDAP 1.1	13.1	Collect & Organize Data (Tables to represent data)	pgs. 320-323	RW73 PW73
SDAP 1.1, 1.2	13.3 & 13.4	*Find Mode, Median, and Outlier Read Line Plots	pgs. 326-329, 330-331	RW75 PW75
SDAP 1.3	14.1 & 14.2	Interpret Bar Graphs	pgs. 344-347	RW79/ 80 PW79/80
SDAP 1.3	14.5	Interpret Line Graphs	pgs. 352-355	RW83 PW83
SDAP 2.2, NS 1.7	24.4	*Probability as a Fraction	pgs. 638-641	RW148 PW148
SDAP 2.1	24.3	Making Predictions	pgs. 634-636	RW147 PW147
SDAP 2.2	24.1	List all Possible Outcomes	pgs. 628-629	RW145 PW145
SDAP 2.1	24.6	Tree Diagrams	pgs. 644-645	RW150 PW150

Give Standards Based Assessment #9: SDAP: Probability and Statistics

April 26 – May 14	Standards Review	3 in 1 Practice Book
Instructional Days: 15		
Number Sense	Use <u>Success with the Math Standards</u> Pgs. 47 - 81	SR 1
Algebra and Functions	Use <u>Success with the Math Standards</u> Pgs. 83 - 97	SR 3
Measurement and Geometry	Use <u>Success with the Math Standards</u> Pgs. 99 - 130	SR 4
Statistics, Data Analysis, Probability	Use <u>Success with the Math Standards</u> Pgs. 131 - 140	SR 5

May 3 – 14 CST Testing

Re-administer Trimester 3 Practice Exam week of May 17

May 17 – 28	Trimester Three Review	
Instructional Days:10	Number of Lessons: 5	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 3.2, 3.3	9.4	Multiply Greater Numbers	pgs.228-229	SR 6
NS 3.2, 3.4	11.4	Divide Greater Numbers	pgs. 278-279	SR 7
NS 1.9, 1.5	16.6	*Order Mixed Numbers (Number Line)	pgs. 430-432	SR 8
NS 1.8	15.2	*Explore Negative Numbers (Number Line)	pgs. 378-380	SR 9
MG 1.2, 1.3, AF 1.1	23.9	Relate Perimeter and Area	pgs. 616-618	SR 10

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May 26 - 28
Review and Administer Trimester Three Exam (30 items)

June 1- June 17	Enrichment Chapters 16 & 17		
Instructional Days: 14	Number of Lessons: 5	(On-going math facts review)	

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.9	16.5	*Read and Write Mixed Numbers	pgs. 426-429	RW99 PW99
NS 1.5	17.3	*Record Addition and Subtraction Fractions (simplify)	pgs. 448-451	RW104 PW104 RW105 PW105
NS 1.5	17.5	*Add and Subtract Mixed Numbers	pgs. 456-458	RW106 PW106
Gr. 5 NS 2.3	Gr. 5 Book 8.5	*Add & Subtract Fraction with Unlike Denominators	Gr. 5 Book pgs. 204-206 & 208-209 Gr. 5 Instructional Strategies	RW52 PW52 Gr. 5 (3 in 1 book)
Gr. 5 NS 2.2	Gr. 5 Book 4.5	*Divide by 2-Digit Divisors	Gr. 5 Book pgs. 96-98 Gr. 5 Instructional Strategies	RW26 PW26 Gr. 5 (3 in 1 book)

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CALIFORNIA CONTENT STANDARDS: GRADE 4	# of Items on CST	Trimester and SBA
By the end of grade four, students understand large numbers and addition, subtraction, multiplication, and division of whole numbers. They describe and compare simple fractions and decimals. They understand the properties of, and the relationships between, plane geometric figures. They collect, represent, and analyze data to answer questions.		
Number Sense	31	
Standard Set 1.0 Students understand the place value of whole numbers and decimals to two decimal places and how whole numbers and decimals relate to simple fractions. Students use the concepts of negative numbers:		
1.1* Read and write whole numbers in the millions.	3	T1 SBA 1
1.2* Order and compare whole numbers and decimals to two decimal places.	2	T1 SBA 1 T1 SBA 3
1.3* Round whole numbers through the millions to the nearest ten, hundred, thousand, ten thousand, or hundred thousand.	2	T1 SBA 1 T1 SBA 2
1.4* Decide when a rounded solution is called for and explain why such a solution may be appropriate.	NA***	
1.5 Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions (see Standard 4.0).	1/2**	T1 SBA 3 T2 SBA 4
1.6 Write tenths and hundredths in decimal and fraction notations, and know the fraction and decimal equivalents for halves and fourths (e.g., $\frac{1}{2} = 0.5$ or $.50$; $\frac{7}{4} = 1\frac{3}{4} = 1.75$).	1/2**	T1 SBA 3
1.7 Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.	1	T1 SBA 3 T2 SBA 4
1.8* Use concepts of negative numbers (e.g., on a number line, in counting, in temperature, in “owing”).	3	T2 SBA 6 T3 SBA 7
1.9* Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.	3	T1 SBA 3 T2 SBA 4
Standard Set 2.0 Students extend their use and understanding of whole numbers to the addition and subtraction of simple decimals:		
2.1 Estimate and compute the sum or difference of whole numbers and positive decimals to two places.	1	T1 SBA 3
2.2 Round two-place decimals to one decimal or the nearest whole number and judge the reasonableness of the rounded answer.	1/2**	T1 SBA 3
Standard Set 3.0* Students solve problems involving addition, subtraction, multiplication, and division of whole numbers and understand the relationships among the operations:		

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3.1*	Demonstrate an understanding of, and the ability to use, standard algorithms for the addition and subtraction of multidigit numbers.	3	T1 SBA 1
3.2*	Demonstrate an understanding of, and the ability to use, standard algorithms for multiplying a multidigit number by a two-digit number and for dividing a multidigit number by a one-digit number; use relationships between them to simplify computations and to check results.	3	T1 SBA 2
3.3*	Solve problems involving multiplication of multidigit numbers by two-digit numbers.	3	T1 SBA 2
3.4*	Solve problems involving division of multidigit numbers by one-digit numbers.	3	T1 SBA 2
Standard Set 4.0 Students know how to factor small whole numbers:			
4.1	Understand that many whole numbers break down in different ways (e.g., $12 = 4 \times 3 = 2 \times 6 = 2 \times 2 \times 3$).	1/2**	T2 SBA 4
4.2*	Know that numbers such as 2, 3, 5, 7, and 11 do not have any factors except 1 and themselves and that such numbers are called prime numbers.	2	T2 SBA 4
Algebra and Functions			18
Standard Set 1.0 Students use and interpret variables, mathematical symbols, and properties to write and simplify expressions and sentences:			
1.1	Use letters, boxes, or other symbols to stand for any number in simple expressions or equations (e.g., demonstrate an understanding and the use of the concept of a variable).	1	T1 SBA 1 T1 SBA 2 T3 SBA 8
1.2*	Interpret and evaluate mathematical expressions that now use parentheses.	5	T1 SBA 1 T1 SBA 2 T3 SBA 8
1.3*	Use parentheses to indicate which operation to perform first when writing expressions containing more than two terms and different operations.	3	T3 SBA 8
1.4	Use and interpret formulas (e.g., $\text{area} = \text{length} \times \text{width}$ or $A = lw$) to answer questions about quantities and their relationships.	1	T2 SBA 6
1.5*	Understand that an equation such as $y = 3x + 5$ is a prescription for determining a second number when a first number is given.	2	T1 SBA 1 T1 SBA 2 T3 SBA 8
Standard Set 2.0* Students know how to manipulate equations:			
2.1*	Know and understand that equals added to equals are equal.	3	T1 SBA 1 T3 SBA 8
2.2*	Know and understand that equals multiplied by equals are equal.	3	T1 SBA 2 T3 SBA 8
Measurement and Geometry			12
Standard Set 1.0 Students understand perimeter and area:			

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1.1	Measure the area of rectangular shapes by using appropriate units such as square centimeter (cm ²), square meter (m ²), square kilometer (km ²), square inch (in ²), square yard (yd ²), or square mile (mi ²).	1/2**	
1.2	Recognize that rectangles that have the same area can have different perimeters.	1/2**	T2 SBA 6
1.3	Understand that rectangles that have the same perimeter can have different areas.	1/2**	T2 SBA 6
1.4	Understand and use formulas to solve problems involving perimeters and areas of rectangles and squares. Use those formulas to find the areas of more complex figures by dividing the figures into basic shapes.	1/2**	T2 SBA 6
Standard Set 2.0* Students use two-dimensional coordinate grids to represent points and graph lines and simple figures:			
2.1*	Draw the points corresponding to linear relationships on graph paper (e.g., draw 10 points on the graph of the equation $y = 3x$ and connect them by using a straight line).	2	T3 SBA 7
2.2*	Understand that the length of a horizontal line segment equals the difference of the x-coordinates.	2	T3 SBA 7
2.3*	Understand that the length of a vertical line segment equals the difference of the y-coordinates.	2	T3 SBA 7
Standard Set 3.0 Students demonstrate an understanding of plane and solid geometric objects and use this knowledge to show relationships and solve problems:			
3.1	Identify lines that are parallel and perpendicular.	1	T2 SBA 5
3.2	Identify the radius and diameter of a circle.	1	T2 SBA 5
3.3	Identify congruent figures.	1/3**	T2 SBA 5
3.4	Identify figures that have bilateral and rotational symmetry.	1/3**	T2 SBA 5
3.5	Know the definitions of a right angle, an acute angle, and an obtuse angle. Understand that 90°, 180°, 270°, and 360° are associated, respectively with ¼, ½, ¾, and full turns.	1/3**	T2 SBA 5
3.6	Visualize, describe, and make models of geometric solids (e.g., prisms, pyramids) in terms of the number and shape of faces, edges, and vertices; interpret two-dimensional representations of three-dimensional objects; and draw patterns (of faces) for a solid that, when cut and folded, will make a model of the solid.	1/3**	T2 SBA 5
3.7	Know the definitions of different triangles (e.g., equilateral, isosceles, scalene) and identify their attributes.	1/3**	T2 SBA 5
3.8	Know the definition of different quadrilaterals (e.g., rhombus, square, rectangle, parallelogram, trapezoid).	1/3**	T2 SBA 5
Statistics, Data Analysis, and Probability		4	
Standard Set 1.0 Students organize, represent, and interpret numerical and categorical data and clearly communicate their findings:			
1.1	Formulate survey questions; systematically collect and represent data on a number line; and coordinate graphs, tables, and charts.	1	T3 SBA 9
1.2	Identify the mode(s) for sets of categorical data and the mode(s), median, and any apparent outliers for numerical data sets.	2/3**	T3 SBA 9
1.3	Interpret one- and two-variable data graphs to answer questions about a situation.	1	T3 SBA 9
Standard Set 2.0 Students make predictions for simple probability situations:			
2.1	Represent all possible outcomes for a simple probability situation in an organized way (e.g., tables, grids,	2/3**	

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	tree diagrams).		
2.2	Express outcomes of experimental probability situations verbally and numerically (e.g., 3 out of 4; $\frac{3}{4}$).	2/3**	T3 SBA 9
Mathematical Reasoning		Embedded	
Standard Set 1.0 Students make decisions about how to approach problems:			
1.1	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	Embedded	
1.2	Determine when and how to break a problem into simpler parts.	Embedded	
Standard Set 2.0 Students use strategies, skills, and concepts in finding solutions:			
2.1	Use estimation to verify the reasonableness of calculated results.	Embedded	
2.2	Apply strategies and results from simpler problems to more complex problems.	Embedded	
2.3	Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Embedded	
2.4	Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Embedded	
2.5	Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.	Embedded	
2.6	Make precise calculations and check the validity of the results from the context of the problem.	Embedded	
Standard Set 3.0 Students move beyond a particular problem by generalizing to other situations:			
3.1	Evaluate the reasonableness of the solution in the context of the original situation.	Embedded	
3.2	Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	Embedded	
3.3	Develop generalizations of the results obtained and apply them in other circumstances.	Embedded	

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