



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 2 MAP²D Pacing Track B Schedule 2009 – 2010

TRIMESTER 1 (September 9 – November 20)

Problem of the Day: Word Problems using MAP²D strategy (UPS: Understand – Plan - Solve)

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

Sept. 14 – 30	Chapters 1, 5, 6, and 18	Addition
Instructional Days: 13	Number of Lessons: 8	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
AF 1.1	1.5	Practice the Facts	pg. 13	RW 5 PW 5
AF 1.1	1.7	Add 3 Numbers	pgs. 17 - 18	RW 7 PW 7
NS 2.2	5.6	*2-Digit Addition	pgs. 113 - 114	RW 34 PW 34
NS 2.2	6.1	Add 2-Digit Numbers	pgs. 123 - 124	RW 35 PW 35
NS 2.2	6.3	Rewrite 2-Digit Addition	pgs. 127 - 128	RW 37 PW 37
NS 2.2	18.2	Model 3-Digit Addition: Regroup Ones	pgs. 395 - 396	RW 111 PW 111
NS 2.2	18.3	Model 3-Digit Addition: Regroup Tens	pgs. 397 - 398	RW 112 PW 112
NS 2.2	18.4	Practice 3-Digit Addition	pgs. 399 - 400	RW 113 PW 113

*Give Standards Based Assessment #1: NS\AF: Addition (*when you feel your students are ready)
Your half hour of “It’s All About the Facts” will continue to support the Addition Content as Tri 1 continues.*

Oct.1 – Oct. 28	Chapters 3, 4, 16, and 17	Place Value
Instructional Days: 20	Number of Lessons:15	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 1.1, 1.2	3.3	Understand Place Value	pgs. 55 – 56	RW 17 PW 17
NS 1.1, 1.2	3.4	*Expanded Form	pgs. 57 – 58	RW 18 PW 18
NS 1.1, 1.2	3.5	*Read and Write Whole Numbers to 100	pgs. 59 – 60	RW 19 PW 19

**Indicates MAP²D Instructional Strategies Available
Bold type indicates lesson used more than once*

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NS 1.2	16.2	Hundreds, Tens, and Ones	pgs. 353 - 354	RW 98 PW 98
NS 1.1, 1.3	16.3	Understand Place Value	pgs. 355 - 356	RW 99 PW 99
NS 1.2	16.4	*Read and Write 3-Digit Numbers	pgs. 357 - 358	RW 100 PW 100
SDAP 2.1	4.3	*Even and Odd Numbers	pgs. 77 - 78	RW 24 PW 24
NS 1.3	4.1	* Compare Numbers – 2 Digit	pgs. 73 - 74	RW 22 PW 22
NS 1.3	6.4	*Estimate Sums (Use this page to compare numbers, not to “estimate sums”)	pgs. 129 - 130	RW 38 PW 38
NS 1.3	4.2	Order Numbers – 2 Digit	pgs. 75 - 76	RW 23 PW 23
NS 1.3	17.1	*Compare Numbers – 3 Digit	pgs. 375 - 376	RW 105 PW 105
NS 1.3	17.2	*Use Place Value to Compare Numbers	pgs. 377 - 378	RW 106 PW 106
NS 1.3	17.4	Order Numbers – 3 Digits	pgs. 381 - 382	RW 108 PW 108
SDAP 2.2	4.5	Skip-Count on a Number Line	pgs. 81 - 82	RW 26 PW 26
SDAP 2.1	4.7	Number Patterns	pgs. 87 - 88	RW 28 PW 28

Give Standards Based Assessment #2: NS: Place Value

Oct. 29 - Nov.18	Chapter 12 and 13	Geometry
Instructional Days: 14	Number of Lessons:8	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
MG 2.1	13.1	Identify Plane Figures	pgs. 287 – 288	RW 80 PW 80
MG 2.1	13.2	Sort Plane Figures	pgs. 289 – 290	RW 81 PW 81
MG 2.2	13.3	Combine Plane Figures	pgs. 291 – 292	RW 82 PW 82
MG 2.2	13.4	Separate Plane Figures	pgs. 293 – 294	RW 83 PW 83
MG 2.1	13.6	Congruent Figures	pgs. 299 – 300	RW 85 PW 85

Re-administer Trimester One Practice Exam Week of November 2

MG 2.1	12.1	Identify Solid Figures	pgs. 267 – 268	RW 75 PW 75
MG 2.1	12.3	Attributes of Solid Figures	pgs. 271– 272	RW 77 PW 77
MG 2.2	12.4	Make Plane Figures from Solid Figures	pgs. 273 – 274	RW 78 PW 78

Give Standards Based Assessment #3: MG: Geometry

November 19-20

Review and Administer Trimester One Exam (20 items)

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TRIMESTER 2 (November 23 – March 5)

POD: Review of Tri 1 content (Use Item Analysis Grid to guide instruction)

January 4 - 25	Chapters 2, 7, 8, & 19	Subtraction
Instructional Days: 18	Number of Lessons:11	(On-going math facts review)

Administer Trimester Two Practice Exam

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 2.1	2.3	Fact Families	pgs. 35 - 36	RW 11 PW 11
NS 2.1	2.4	Think Addition to Subtract	pgs. 37 - 38	RW 12 PW 12
NS 2.1	2.5	Missing Addend	pgs. 39 - 40	RW 13 PW 13
AF 1.2	2.6	Problem Solving Workshop	pgs. 41-42	RW 14 PW 14
NS 2.2	7.5	*Model and Record 2-Digit Subtraction	pgs. 153 - 154	RW 46 PW 46
NS 2.2	7.6	Subtract 2-Digit Subtraction	pgs. 155 - 156	RW 47 PW 47
NS 2.2	8.1	2-Digit Subtraction	pgs. 165 - 166	RW 48 PW 48
NS 2.2	8.3	Rewrite 2-Digit Subtraction	pgs. 169 - 170	RW 50 PW 50
NS 2.1, 2.2	8.5	*Use Addition to Check Subtraction	pgs. 173 - 174	RW 52 PW 52
NS 2.2	19.2	3-Digit Subtraction: Regroup Tens	pgs. 415 - 416	RW 117 PW 117
NS 2.2	19.3	3-Digit Subtraction: Regroup Hundreds	pgs. 417 - 418	RW 118 PW 118
NS 2.2	19.4	Practice 3-Digit Subtraction	pgs. 419 - 420	RW 119 PW 119

Give Standards Based Assessment #4: NS: Subtraction -- when you feel your students are ready for it. Your half hour of "It's All About the Facts" will continue to support the Subtraction Content.

January 26 – March 1	Chapters 10, 11, & 24	Money, Time , and Calendar
Instructional Days: 24	Number of Lessons:16	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 5.2	10.1	Dimes, Nickels, and Pennies	pgs. 219 - 220	RW 64 PW 64
NS 5.2	10.2	Half-Dollars and Quarters	pgs. 221 - 222	RW 65 PW 65
NS 5.1, 5.2	10.3	Count Collections	pgs. 223 - 224	RW 66 PW 66

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NS 5.1, 5.2	10.4	Make the Same Amounts	pgs. 225 - 226	RW 67 PW 67
NS 5.2	11.1	* Compare Amounts	pgs. 239 - 240	RW 69 PW 69
NS 5.2	11.5	One Dollar	pgs. 251 - 252	RW 73 PW 73
NS 5.2	11.6	*Make Change to \$1.00	pgs. 253 - 254	RW 74 PW 74
NS 5.2	11.4	Problem Solving Strategy Practice	pgs. 249 - 250	RW 72 PW 72
NS 5.1	11.3	Add and Subtract Money	pgs. 245 - 246	RW 71 PW 71
NS 5.1	19.5	Add and Subtract Money	pgs. 421 - 422	RW 120 PW 120
MG 1.4	24.3	Time to 5 Minutes	pgs. 527 - 528	RW 150 PW 150
MG 1.4	24.2	Time to 15 Minutes	pgs. 525 - 526	RW 149 PW 149
MG 1.4	24.4	Time Before the Hour	pgs. 529 - 530	RW 151 PW 151
MG 1.5	24.6	Elapsed Time (hour intervals)	pgs. 533 - 534	RW 153 PW 153
MG 1.5	24.7	Problem Solving	pgs. 535 - 536	RW 154 PW 154
MG 1.4	24.8	Days, Weeks, Months, and Years	pgs. 537 - 538	RW 155 PW 155

Give Standards Based Assessment #5: NS/MG: Money, Time, and Calendar

March 2 - 24	Chapter 14	Fractions
Instructional Days 15	Number of Lessons: 7	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 4.2	14.1	*Equal Parts	pgs. 309 - 310	RW 86 PW 86
NS 4.1	14.2	*Unit Fractions	pgs. 311 - 312	RW 87 PW 87
NS 4.1	14.3	*Compare Unit Fractions	pgs. 313 - 314	RW 88 PW 88
NS 4.2	14.5	Other Fractions-Parts of a Whole	pgs. 317 - 318	RW 90 PW 90

Re-administer Trimester Two Practice Exam Week of March 8

NS 4.3	14.6	Fractions Equal to 1	pgs. 319 - 320	RW 91 PW 91
NS 4.2	N/A	*Parts of a Group	See: Intranet, Instructional Tools, Grade 2, Fractions	

Give Standards Based Assessment #6: NS: Fractions

March 22 - 24

Review and Administer Trimester Two Exam (25 items)

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TRIMESTER 3 (March 25 – July 26)**POD: Review of Tri 1 and Tri 2 content (Use Item Analysis Grid to guide review)**

March 25 – April 2 April 26 - 30	Chapter 9	Data and Graphs
Instructional Days: 10	Number of Lessons: 7	(On-going math facts review)

Administer Trimester Three Practice Exam

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
AF 1.3, SDAP 1.4	9.1	Picture Graphs	pgs. 195 -196	RW 57 PW 57
SDAP 1.1, 1.2. 1.4	9.2	Take a Survey on a Tally Chart	pgs. 197 - 198	RW 58 PW 58
SDAP 1.4	9.3	Read a Bar Graph	pgs. 199 - 200	RW 59 PW 59
SDAP 1.1, 1.2	9.4	Make a Bar Graph	pgs. 201 - 202	RW 60 PW 60

April 5 - 23**Spring Recess**

SDAP 1.4	9.5	Problem Solving	pgs. 203 - 206	RW 61 PW 61
SDAP 1.3	9.6	Pictographs	pgs. 207 - 208	RW 62 PW 62
SDAP 1.3	9.7	*Range and Mode	pgs. 209 - 210	RW 63 PW 63

Give Standards Based Assessment #7: SDAP: Data and Graphs

May 3 – May 21	Chapter 20 and 21	Multiplication and Division
Instructional Days: 15	Number of Lessons: 11	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
NS 3.1	20.2	*Connect Addition with Multiplication	pgs. 441 -442	RW 124 PW 124
NS 3.1	20.3	Model with Arrays	pgs. 443 -444	RW 125 PW 125
NS 3.1	20.4	Multiply in Any Order	pgs. 445 - 446	RW 126 PW 126
AF 1.2, 1.3	20.5	Problem Solving	pgs. 447 - 450	RW 127 PW 127
NS 3.1, 3.3	20.6	Multiply with 2	pgs. 451 - 452	RW 128 PW 128
NS 3.1, 3.3	20.7	Multiply with 5	pgs. 453 - 454	RW 129 PW 129

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NS 3.1, 3.3	20.8	Multiply with 10	pgs. 455 - 456	RW 130 PW 130
NS 3.2	21.1	Size of Shares	pgs. 467 - 468	RW 132 PW 132
NS 3.2	21.2	*Number of Equal Shares	pgs. 469 - 470	RW 133 PW 133
NS 3.2	21.3	Equal Shares with Remainders	pgs. 471 - 472	RW 134 PW 134
NS 3.2	21.5	Problem Solving	pgs. 475 - 476	RW 136 PW 136

Give Standards Based Assessment #8: NS: Multiplication and Division

May 24 - 28	Chapter 22	Measurement
Instructional Days: 5	Number of Lessons: 4	(On-going math facts review)

CA Standards	Lesson #'s	Content	Page Numbers	3 in 1 Practice Book
MG 1.1	22.1	Measure Length with Nonstandard Units	pgs. 485 – 486	RW 137 PW 137
MG 1.1, 1.2	22.2	Compare Nonstandard Units	pgs. 487 – 488	RW 138 PW 138
MG 1.3, NS 6.1	22.3	Measure to the Nearest Inch	pgs. 489 – 490	RW 139 PW 139
MG 1.3	22.6	Measure to the Nearest Centimeter	pgs. 495 - 496	RW 142 PW 142

June 1 - 7	Standards Review Week		3 in 1 Practice Book
Number Sense	<u>Success with the Math Standards</u> pgs 91 – 120, 161-166	Possible pages to use for the review are listed in the column to the left. Pages that are not used at this time can be used at the end of the year.	SR 1
Algebra and Functions	<u>Success with the Math Standards</u> pgs 123 – 124,167-168		SR 2
Measurement and Geometry	<u>Success with the Math Standards</u> pgs. 133 – 144, 169-172		SR 3
Statistics, Data Analysis & Probability	<u>Success with the Math Standards</u> pgs. 147 - 152		SR 4

June 7 - 18 CST Testing

Re-administer Trimester Three Practice Exam Week June 21

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June 21 - 29	Chapter 22: Review	Measurement
Instructional Days: 5	Number of Lessons: 5	(On-going math facts review)

CA Standards	Lesson #'s	Content	Success with Math Standards Page Numbers
MG 1.1	22.1	Measure Length with Nonstandard Units	pgs. 129-130
MG 1.1, 1.2	22.2	Compare Nonstandard Units	pgs. 131-132
MG 1.3	22.3	Measure to the Nearest Inch	pgs. 133-134 (in.)
MG 1.2, 1.3	22.5	Measure in Inches and Feet	(Measure objects in classroom)
MG 1.3	22.6	Measure to the Nearest Centimeter	pg. 134 (cm)

Give Standards Based Assessment #9: MG: Measurement

June 30 – July 2

Review and Administer Trimester Three Exam (30 items)

July 6 - 23	Enrichment	Grade 3 Prep
Instructional Days: 13	Number of Lessons: 6	
NS 2.1	Add 3-and 4- Digit Numbers	Use Application Problems from “It’s All about the Facts” for sample problems.
NS 2.1	Subtract 3- and 4- Digit Numbers	
NS 2.1	Subtract Across Zeros	
NS 2.1	Addition Properties	
MG 1.3	*Perimeter: Enrich: “How Far Around?”	Chapter 22, page 500
MG 1.2	*Cups, Pints, Quarts, and Gallons	Chapter 23 Lesson 3, page 509-510

<i>CALIFORNIA CONTENT STANDARDS: GRADE 2</i>	# of Items on CST	Trimester and SBA
By the end of grade two, students understand place value and number relationships in addition and subtraction, and they use simple concepts of multiplication. They measure quantities with appropriate units. They classify shapes and see relationships among them by paying attention to their geometric attributes. They collect and analyze data and verify the answers.		

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<i>CALIFORNIA CONTENT STANDARDS: GRADE 2</i>	# of Items on CST	Trimester and SBA
Number Sense	38	
Standard Set 1.0 Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000:		
1.1* Count, read, and write whole numbers to 1,000 and identify the place value for each digit.	3	Tri 1 SBA 2
1.2 Use words, models, and expanded forms (e.g., $45 = 4 \text{ tens} + 5$) to represent numbers (to 1000).	1	Tri 1 SBA 2
1.3* Order and compare whole numbers to 1,000 by using the symbols $<$, $=$, $>$.	4	Tri 1 SBA 2
Standard Set 2.0 Students estimate, calculate, and solve problems involving addition and subtraction of two- and three-digit numbers:		
2.1* Understand and use the inverse relationship between addition and subtraction (e.g., an opposite number sentence for $8 + 6 = 14$ is $14 - 6 = 8$) to solve problems and check solutions.	2 1/2**	Tri 2 SBA 4
2.2* Find the sum or difference of two whole numbers up to three digits long.	4	Tri 1 SBA 1, Tri 1 SBA 2 Tri 2 SBA 4
2.3 Use mental arithmetic to find the sum or difference of two-digit numbers.	NA***	
Standard Set 3.0* Students model and solve simple problems involving multiplication and division:		
3.1* Use repeated addition, arrays, and counting by multiples to do multiplication.	2	Tri 3 SBA 8
3.2* Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.	3	Tri 3 SBA 8
3.3* Know the multiplication tables of 2s, 5s, and 10s (to “times 10”) and commit them to memory.	3	Tri 3 SBA 8
Standard Set 4.0 Students understand that fractions and decimals may refer to parts of a set and parts of a whole:		
4.1* Recognize, name, and compare unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$.	3	Tri 2 SBA 6
4.2* Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls).	3	Tri 2 SBA 6
4.3* Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.	3	Tri 2 SBA 6
Standard Set 5.0 Students model and solve problems by representing, adding, and subtracting amounts of money:		
5.1* Solve problems using combinations of coins and bills.	3	Tri 2 SBA 5
5.2* Know and use the decimal notation and the dollar and cent symbols for money.	3	Tri 2 SBA 5
Standard Set 6.0 Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places:		
6.1 Recognize when an estimate is reasonable in measurements (e.g., closest inch).	1/2**	Tri 3 SBA 9

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<i>CALIFORNIA CONTENT STANDARDS: GRADE 2</i>	# of Items on CST	Trimester and SBA
Algebra and Functions	6	
Standard Set 1.0 Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction:		
1.1* Use the commutative and associative rules to simplify mental calculations and to check results.	4	Tri 1 SBA 1 Tri 3 SBA 8
1.2 Relate problem situations to number sentences involving addition and subtraction.	1	Tri 3 SBA 4
1.3 Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.	1	Tri 3 SBA 8
Measurement and Geometry	14	
Standard Set 1.0 Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured:		
1.1 Measure the length of objects by iterating (repeating) a nonstandard or standard unit.	1	Tri 3 SBA 9
1.2* Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.	1	Tri 3 SBA 9
1.3* Measure the length of an object to the nearest inch and/or centimeter.	3	Tri 3 SBA 9
1.4 Tell time to the nearest quarter hour and know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year).	2	Tri 2 SBA 5
1.5 Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.).	1	Tri 2 SBA 5
Standard Set 2.0* Students identify and describe the attributes of common figures in the plane and of common objects in space:		
2.1* Describe and classify plane and solid geometric shapes (e.g., circle, triangle, square, rectangle, sphere, pyramid, cube, rectangular prism) according to the number and shape of faces, edges, and vertices.	3	Tri 1 SBA 3
2.2* Put shapes together and take them apart to form other shapes (e.g., two congruent right triangles can be arranged to form a rectangle).	3	Tri 1 SBA 3
Statistics, Data Analysis, and Probability	7	
Standard Set 1.0* Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations:		
1.1 Record numerical data in systematic ways, keeping track of what has been counted.	2	Tri 3 SBA 7
1.2 Represent the same data set in more than one way (e.g., bar graphs and charts with tallies).	2	Tri 3 SBA 7
1.3 Identify features of data sets (range and mode).	2	Tri 3 SBA 7
1.4 Ask and answer simple questions related to data representations.	1	Tri 3 SBA 7
Standard Set 2.0* Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways:		

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<i>CALIFORNIA CONTENT STANDARDS: GRADE 2</i>	# of Items on CST	Trimester and SBA
2.1 Recognize, describe, and extend patterns and determine a next term in linear patterns (e.g., 4, 8, 12, ...; the number of ears on one horse, two horses, three horses, four horses).	NA***	Tri 1 SBA 2
2.2 Solve problems involving simple number patterns.	NA***	Tri 1 SBA 2
Mathematical Reasoning	Embedded	
Standard Set 1.0 Students make decisions about how to set up a problem:		
1.1 Determine the approach, materials, and strategies to be used.	Embedded	
1.2 Use tools, such as manipulatives or sketches, to model problems.	Embedded	
Standard Set 2.0 Students solve problems and justify their reasoning:		
2.1 Defend the reasoning used and justify the procedures selected.	Embedded	
2.2 Make precise calculations and check the validity of the results in the context of the problem.	Embedded	
Standard Set 3.0 Students note connections between one problem and another.		
<i>GRADE 2 TOTAL</i>	65	

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