Champaign Community Unit # 4 School District
Fourth Grade Curriculum Map / Instructional Timeline

Fourth Grade Assessment 1 (units 1-3)

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
On-going **Reg. Cal.** Aug. 23 - Sept. 11 **Bal. Cal**. Jul. 24 - Aug. 4	**ISAT Review Topics** • Spiral review on all ISAT topics with a focus on per cents questions • Math Extended-Response (students should write extended-responses at least once a month – analyze extended responses work once a week) **Unit 1: Naming and Constructing Geometric Figures** • To acquaint students with the content and organization of the Student Reference Book. (Secure) • To introduce tools for geometry; and to review points, line segments, lines, and rays (Secure) • To construct angles, triangles, and quadrangles; and to classify quadrangles. (Secure) • To classify quadrangles based on their properties. (Secure) • To identify properties of polygons and distinguish between convex and nonconvex (concave) polygons; and to explore geometric definitions and classification. (Secure) • To explore regular polygons; and to practice using a compass. (Developing) • To define a circle; and to explore designs with circles. (Developing) • To construct figures with a compass and	 1.1* 1.2 1.3* 1.4* 1.5* 1.6 1.7 1.8*	Curriculum Binder – ISAT support section Buckle Down Materials **District Computation Assessment** [Math Curse 1.1] *Touch and Match it Quadrangles(1.3)* *Geometry 5 Questions (1.4)* *Name that Polygon (1.5)* [The Greedy Triangle 1.5] [Ed Emberly's Piture Pie 1.6] 6-Pak Geometry Lesson: ,	www.isbe.net http://ww.wiu.edu/mathtips/ iirc.edu www.tlexchange.com http://everydaymath.uchicago.edu/ www.illuminations.nect.org/lessonplans/index.html www.aplusmath.com	 9A, 9B 9A, 9B 9B 9A, 9B 9A, 9B 9A, 9B 9A, 9B 9A, 9B

	straightedge. (Secure) • **Unit 1 Review & Assessment**	1.9	Assessment CD, BLM		

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Sept. 12 – Sept. 29 **Bal. Cal.** Aug. 7 - Aug. 24	**Unit 2: Using Numbers and Organizing Data** • To review and find examples of the various ways in which numbers are used; and to introduce the World Tour Project (Beginning) • To find equivalent names for numbers. (Secure) • To name values of digits in numbers up to hundred-millions; and to read and write numbers up to hundred-million. (Secure) • To practice place-value skills through a calculator routine; and to read and write large numbers. (Secure) • To organize and display data with a tally chart; and to determine the maximum, minimum range, and mode of a set of data. (Secure) • Review how to display a set of data with a line plot and find the median • To review the partial-sums method for addition; and to introduce a column-addition method similar to the traditional addition algorithm. (Secure) • To measure length to the nearest ½ centimeter; and to make and use bar graphs for a set of collected data. (Secure) • To review the trade-first and counting-up methods for subtraction; and to introduce	2.1 2.2* 2.3* 2.4 2.5 2.6 2.7* 2.8 2.9	*Name that Number (2.2, 2.7)* [Twelve Ways to Get Eleven 2.2] [If You Made a Million 2.3] *Number Top It (2.4)* *High Number Toss (2.4, 2.7)* *Addition Top It (2.5)* *Subtraction Top It (2.6)* *Subtraction Target Practice (2.9)*		6A, 6B, 6C 6A 6A 6A 10A, 10B 10A, 10B 6B, 6C 7A, 10A, 10B

	the partial-differences method for subtraction. (Secure) **Unit 2 Review & Assessment**	2.10	Assessment CD, BLM		6B, 6C

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Oct. 3 – Oct. 20 **Bal. Cal.** Aug. 25 – Sept. 15	**Unit 3: Multiplication and Division; Number Sentences and Algebra** • To review strategies for multiplication facts; and to work toward instant recall of the multiplication facts. (Secure) • To establish a 50-facts test routine; and to practice multiplication facts. (Beginning) • To give a 50-facts test and record results; and to practice multiplication facts. (Beginning) • To explore the relationship between multiplication and division and between division and fractions; and to practice division facts. (Secure) • To continue the World Tour Project (Beginning) • To find air distances. (Developing and Secure) • To introduce a simplified approach to solving number stories; and to solve number stories. (Developing) • To review the meanings of number sentences; and to determine whether number sentences are true of false. (Developing) • To review the use of parentheses in	3.1* 3.2 3.3* 3.4* 3.5 3.6 3.7* 3.8* 3.9*	[Each Orange Had Eight Slices 3.1] *Baseball Multiplication (3.2, 3.3, 3.6, 3.9)* *Beat the Calculator (3.3, 3.9)* *Multiplication Top It (3.3)* *Division Arrays (3.4)* *Name That Number (3.9)*		6B, 6C 6B, 6C 6B, 6C 6A, 6B, 6C 6B, 6C, 7A, 7B 7A, 7B 6B, 6C 6B, 6C, 8C 6B, 6C

	number sentences. (Secure) • To introduce vocabulary and notation for open sentences and to solve open sentences. (Developing) • To develop reasoning skills. (Developing) **Unit 3 Review & Assessment**	3.10* 3.11 3.12	*Broken Calculator (3.10)* [Anno's Hat Trick 3.11] Assessment CD, BLM **Dist. Assessment Unit 1-3** **Reg. – Oct. 24-25** **Bal. – Sept. 18-19**		6B, 6C, 8C 6B, 6C, 7B

Champaign Community Unit # 4 School District
Fourth Grade Curriculum Map / Instructional Timeline

Fourth Grade Assessment 2 (units 4-6)

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
On-going **Reg. Cal**. Oct 26 – Nov. 17 **Bal. Cal.** Oct.16 – Oct. 31	**ISAT Review Topics** • Spiral review of ISAT content with a focus on Reflections and Symmetry • Math Extended-Response (students should write extended-responses at least once a month – analyze extended responses work once a week) **Unit 4: Decimals and Their Uses** • To review basic concepts and notation for decimals through hundredths. (Developing) • To compare and order decimals in tenths and hundredths. (Developing) • To learn why decimals are useful and to estimate sums and differences of decimals. (Developing) • To extend methods for whole-number addition and subtraction to decimals. (Developing) • To compute balances in a savings account. (Secure) • To extend basic concepts and notation for decimals to thousandths. (Developing) • To review the relationships among metric units of length; and to work with metric measurements. (Developing) • To establish personal references for metric units of length. (Developing)	4.1* 4.2* 4.3* 4.4 4.5* 4.6* 4.7 4.8	Curriculum Binder – ISAT support Buckle Down Materials *Baseball Multiplication (4.2)* *Beat the Calculator (4.2)* *Multiplication Top It (4.2)* *Number Top It (4.2)* [Kids are Punny: Jokes Sent by Kids to the Rosie O'Donnel Show 4.2] *Number Top It – Decimals (4.6)*	www.isbe.net http://ww.wiu.edu/mathtips/ iirc.edu www.tlexchange.com http://everydaymath.uchicago.edu/ www.illuminations.nctm.org/lessonplans/index.html www.aplusmath.com	6A, 6B 6A 6A, 6B 6A, 6B, 6C 6B, 6C, 7A 6A 7A 7A

	• To measure lengths to the nearest millimeter; and to convert measurements between millimeters and centimeters. (Secure) • To summarize the concepts presented in this unit by extending the base-ten place-value system to decimals. (Beginning) **Unit 4 Review & Assessment**	4.9* 4.10 4.11	Assessment CD, BLM		7A, 7B 6A

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Nov. 20 – Dec. 11 **Bal. Cal**. Nov. 1 – Nov. 22	**Unit 5: Big Numbers, Estimation, and Computation** • To extend basic multiplication facts to products of ones and tens and products of tens and tens. (Developing) • To practice the extended multiplication facts; and to introduce the basic principles of multiplication with multidigit numbers. (Developing) • The examine situation in which it is appropriate to make an estimate; and to estimate sums. (Secure) • To estimate whether a product is in the tens, hundreds, thousands, or more. (Developing) • To learn and practice the partial-products algorithm for 1 digit multipliers. (Developing) • To learn and practice the partial-products algorithm for 2 digit	5.1* 5.2 5.3* 5.4 5.5* 5.6	*Beat the Calculator (5.1)* *Multiplication Wrestling (5.2-5.4, 5.6)* [In the Next Three Seconds 5.4]		6A, 6C 6B, 6C 6B, 6C 6A, 6B, 6C 6C 6C

	multipliers. (Developing) • To learn and practice the lattice method for multiplication. (Developing) • To read, write, and compare large numbers using patterns in the base-ten place-value system. (Secure) • To introduce exponential notation for powers of 10 as a way of naming the values of places in our base-ten system.(Beginning) • To discuss sensible ways of reporting a count when a large number of items have been counted. (Secure) • To look up and compare numerical data, including geographical measurements. (Secure) **Unit 5 Review & Assessment**.	5.7* 5.8 5.9 5.10 5.11 5.12	[How Much is a Million 5.8] *High Number Toss (5.11)* *Number Top It (5.11)* Assessment CD, BLM		6C 6A 6A 6A, 6B, 6C 7A, 7B, 10A, 10B

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Dec. 12 – Jan. 11 **Bal. Cal.** Nov. 27 – Dec. 14	**Unit 6: Division; Map Reference Frames; Measures of Angles** • To solve equal-grouping division stories by using a multiples-of-10 strategy. (Developing) • To introduce and practice a "low stress" division algorithm. (Developing) • To solve multiplication and division number stories, using diagrams to	6.1* 6.2* 6.3*	Project 1 Making a Cutaway Globe Project 2 Using a Magnetic Compass *Division Dash (6.2)*		6B, 6C 6B, 6C 6B, 6C, 8A. 8B

	organize information. (Developing) • To express remainders in division as fractions or decimals, and answers as missed number or decimals; and to interpret remainders in problem contexts. (Developing) • To use letter-number pairs and ordered pairs of numbers to locate points on a rectangular grid; and to use a map scale. (Developing) • To review rotations; and to make and use a circular protractor. (Developing) • To use a circular protractor to measure and draw angles less than 360 degrees. (Developing) • To classify angles as acute, right, obtuse, straight, and reflex; and to use a half-circle protractor to measure angles.(Developing) • To introduce the partitioning of the globe using circles of latitude and semicircles of longitude; and to use a half-circle protractor to draw angles. (Beginning) • To find the latitude and longitude of given places using a globe and a map; and to identify places for which the latitude and longitude are given. (Beginning) **Unit 6 Review & Assessment**	6.4 6.5 6.6* 6.7* 6.8 6.9 6.10* 6.11	[A Remainder of One 6.4] *Grid Search (6.5*) *Robot (6.6)* Assessment CD, BLM **District Computation Assessment given around end of first semester** **Dist. Assessment Units 4-6 Regular –Jan 12 Balance–Dec. 15**		6B. 6C 8B, 7C 9A 7A, 9A 7A, 9A, 9B 7A, 9B 7C

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Fourth Grade Curriculum Map / Instructional Timeline

Fourth Grade Assessment 3 (Units 7-9)

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
On-Going	**ISAT Review Topics** • Continue spiral review with focus on • 3-D Shapes, Weight, Volume, and Capacity • Rates • Math Extended-Response (students should write extended-responses at least once a month – analyze extended responses work once a week)		Curriculum Binder – ISAT support Buckle Down Materials Project 3: A Carnival Game	www.isbe.net http://ww.wiu.edu/mathtips/ iirc.edu	
Reg. Cal. Jan. 17 - Feb 6 **Bal. Cal.** Jan. 3 - Jan. 26	**Unit 7: Fractions and Their Uses; Chance and Probability** • To review fractions as parts of a whole (One), fractions on number lines, and uses of fractions.(Secure) • To find fractional parts of sets.(Secure) • To find fraction parts of polygonal regions.(Secure) • To use pattern bocks to help add and subtract factions.(Beginning) • To model fractions on a clock face; and to use a clock face to help add and subtract fractions.(Beginning/Secure) • To identify equivalent fractions.(Developing) • To develop and use a rule for generation equivalent fractions.(Developing) • To rename fractions as decimals and decimals as fractions, and to explore the relationship between fractions and	7.1* 7.2* 7.3 7.4 7.5 7.6 7.7 7.8	[Gator Pie 7.1] [Grandfather Tang's Story 7.3] *Name that Number (7.6)* *Musical Name-Collection Boxes (7.7)*	www.tlexchange.com http://everydaymath.uchicago.edu/ www.illuminations.nctm.org/lessonplans/index.html www.aplusmath.com	6A 6A 6A 6A, 6B, 6C 6A, 6B, 6C 6A 6A 6A

	division.(Developing) • To order sets of fractions.(Secure) • To find the whole, or ONE, for given fractions.(Secure) • To review basic ideas of probability, including fairness and expected results; and to apply knowledge of fractions to spinners.(Developing) • To compare predicted and actual results from an experiment with random outcomes.(Developing) **Unit 7 Review & Assessment**	7.9* 7.10* 7.11 7.12* 7.13	*Fraction Top It (7.10)* [Do you want to Bet? Your chance to find out about probability 7.11] 6-Pak fraction lessons Assessment CD, BLM		6A 6A 10C 10C

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Feb 7 - Feb. 27 **Bal. Cal**. Jan. 29 - Feb.14	**Unit 8: Perimeter and Area** • To measure and add distances in feet and inches; to find the medians and other landmarks of sets of measurements and to find the perimeters of triangles.(Secure) • To measure distances to the nearest foot; and to use measurements and a given scale to create a scale drawing on a grid.(Beginning/Developing) • To review basic area concepts; to estimate to area of a polygon by counting unit squares; and to use a scale drawing to find area.(Beginning/Secure) • To estimate the area of a surface having a cured boundary; and to convert measurements from one unit to another. (Beginning) • To develop and use a formula for the	8.1* 8.2 8.3 8.4* 8.5	6-Pak Measurement lessons: *Making measurement count, Big Ideas of Measurement, How does Penny Measure Up?, Everyday Measures, Flag Measures, Guessing is Good, Record Lengths*		7A, 10A 7A, 7B, 7C 7A, 7C 7A, 7B, 7C 7A

	area of a rectangle.(Developing) • To review the properties of parallelograms; and to develop and use a formula for the area of a parallelogram.(Beginning) • To develop and use a formula for the area of a triangle.(Developing) • To examine how geographical areas are measured; and to use division to compare two quantities with like units.(Developing) **Unit 8 Review & Assessment**	8.6 8.7 8.8 8.9	6-Pak measurement lesson: *Party Trays and Treats* Assessment CD, BLM		7A, 9A 7A, 9A 7A, 7B, 7C, 6C

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
Reg. Cal. Feb. 28 - March 16 **District Test March 29-30** **Bal. Cal.** Feb 15-March 12 **District Test March 14-16** **ISAT TESTING March 5-9**	**Unit 9: Percents** • To use percents to describe real-life situations; and to practice naming equivalents among fractions, decimals, and percents. (Secure) • To rename "easy" fractions (fourths, fifths, and tenths) as decimals and percents; and to solve percent problems by using equivalent fractions.(Secure) • To rename any fraction as a decimal by using a calculator and to memorize fraction/percent equivalencies for "easy" fractions (fourths, fifths, and tenths). (Developing) • To rename fractions as percents using a calculator; and to solve number stories involving discounts expressed as	9.1 9.2 9.3* 9.4*	[Gator Pie; Eating Fractions 9.3] *Getting to One (9.3)* *Fraction / Percent Concentration (9.3, 9.4, 9.8)*		6A, 6B, 6C,6D 6A, 6B, 6C, 6D 6A, 6D 6A, 6B, 6C, 6D 6D, 10A,

	percents. (Secure) • To look up and record numerical data; to rename fractions as percents using a calculator; and to rename decimal as percents. (Secure) • To organize and tabulate survey data and to use percents to compare quantities expressed as fractions with unlike denominators. (Developing) • To rank and compare data that is reported as percents; and to display ranked data by coloring maps. (Secure) • To multiply decimals by whole numbers; and to practice the partial-products and lattice methods for multiplication.(Beginning) • To divide decimals by whole numbers; and to practice the partial-quotients division algorithm introduced in Unit 6. (Beginning) **Unit 9 Review & Assessment**	9.5 9.6 9.7 9.8 9.9* 9.10	[Incredible Comparisons 9.6] Assessment CD, BLM **Dist. Assessment for Units 7-9** **Regular Calendar Review March 26-28 Assess March 29-30** **Balance- March 14-16**		10B 10A, 10B 6D, 10A, 10B 6B, 6C 6B, 6C

Champaign Community Unit # 4 School District
Fourth Grade Curriculum Map / Instructional Timeline

Fourth Grade Assessment 4 (Units 10-12)

Wks	Mathematical Understandings and Objectives	Textbook	Support Resources, Projects, Assessments, Literature Connections, Enrichment Activities	Technology	Illinois Performance Standard Assessment Framework
On-going **Reg Cal.** April 2 - April 13 **Bal. Cal.** April 10 - April 20	**Unit 10:Reflection and Symmetry** • To explore reflections of 2-dimensional figures. (Secure) • To explore reflections; and to identify lines of reflection. (Secure) • To discover basic properties of reflections. (Secure) • To explore the connection between reflections and line symmetry. (Beginning) • To explore an application of reflections, rotations, and translations.(Secure) • To explore addition of integers. (Secure) **Unit 10 Review & Assessment**	10.1 10.2 10.3 10.4* 10.5* 10.6 10.7	Project # 4: Making a Quilt Project 7 – Numbers, Maya Style *Dart Game (10.2)* *Pocket-Billiards Game (10.2)* *Credits / Debits Game (10.6)* Assessment CD, BLM	http://ww.wiu.edu/mathtips/ iirc.edu www.isbe.net www.tlexchange.com http://everydaymath.uchicago.edu/ www.illuminations.nctm.org/lessonplans/index.html www.aplusmath.com	9A 9A 9A 9A 9A 6B, 6C

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Reg. Cal. April 16 - April 27 **Bal Cal.** April 23 - May 4	**Unit 11: Shapes, Weight, Volume, and Capacity** • To review grams and ounces as units of weight; and to estimate and measure weights in grams and ounces. (Developing) • To review properties of common geometric solids. (Developing) • To identify geometric solids given their properties and to construct polyhedrons with straws and twist-ties. (Developing) • To review concepts and units of volume. (Developing) • To derive and use a formula for the volume of a rectangular prism. (Beginning) • To add and subtract positive and negative integers. (Beginning) • To review customary units of capacity. (Developing) **Unit 11 Review & Assessment**	11.1* 11.2 11.3* 11.4* 11.5* 11.6* 11.7 11.8	<u>Project 6</u> – Building and Viewing Structures *What's My Weight? (11.1)* *Credits / Debits Game (11.3, 11.5)* *Credits / Debits Game advanced version (11.6)* Assessment CD, BLM		7A, 7B 9A, 9B 9A, 9B 7A, 7B 7A, 7B, 7C 6B, 6C 7A, 7B

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Reg Cal. April 30 – May 16 **Bal Cal.** May 7 – May 16	**Unit 12: Rates** • To introduce rates; and to collect and compare rate data. (Developing) • To use a rate table to record rate information and to solve rate problems. (Secure) • To check the validity of data by converting them to more accessible rates. (Secure) • To calculate the unit price for a product; to compare unit prices; and to identify information needed for comparison shopping. (Secure) • To calculate and compare unit prices that involves fractions of cents. (Developing) • To reflect on this year's World Tour experiences. (Secure) **Unit 12 Review & Assessment**	12.1 12.2 12.3 12.4 12.5 12.6 12.7	<u>Project 5</u>- Which Soft Drink is Best to Buy? [Each Orange had 8 Slices 12.1] *Credits / Debits Game – advanced version (12.2)* [In the Next Three Seconds 12.3] [Count Your Way Through …Series 12.6] Assessment CD, BLM **District Assessment for Units 10 – 12:** **Regular – May 17-18** **Balance – May 17-18** **District Computation Assessment for those who need it**		6D, 10A, 10B 6D, 10A, 10B 6D, 10A, 10B 6D 6D 6B, 6C, 7A, 7B

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