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Grades K-6

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Grades K-6

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correlated to
Texas Essential Knowledge and Skills for Mathematics
Kindergarten

Texas Essential Knowledge and Skills for Mathematics, Kindergarten	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(K.1) Number, operation, and quantitative reasoning. The student uses numbers to name quantities. The student is expected to:	
(A) use one-to-one correspondence and language such as more than, same number as, or two less than to describe relative sizes of sets of concrete objects;	TG: 18–26, 33–41, 46–52, 55, 60–66, 74–79, 81, 89–94, 103–104, 108, 110–111, 116, 122–125, 132–135
(B) use sets of concrete objects to represent quantities given in verbal or written form (through 20); and	TG: 18–26, 34–41, 46–52, 55, 62–67, 74–79, 89–94, 103–108, 112–113, 120–121, 124–125, 131–133
(C) use numbers to describe how many objects are in a set (through 20) using verbal and symbolic descriptions.	TG: 18–26, 34–41, 46–52, 55, 62–67, 74–79, 89–94, 103–108, 112–113, 120–121, 124–125, 131–133
(K.2) Number, operation, and quantitative reasoning. The student describes order of events or objects. The student is expected to:	
(A) use language such as before or after to describe relative position in a sequence of events or objects; and	TG: 23, 40, 46, 53, 61, 92, 107
(B) name the ordinal positions in a sequence such as first, second, third, etc.	TG: 28, 33, 50–51, 88, 105, 116, 117
(K.3) Number, operation, and quantitative reasoning. The student recognizes that there are quantities less than a whole. The student is expected to:	
(A) share a whole by separating it into two equal parts; and	TG: 87–88
(B) explain why a given part is half of the whole.	TG: 87–88

Texas Essential Knowledge and Skills for Mathematics, Kindergarten	<i>Every Day Counts Calendar Math</i>
(K.4) Number, operation, and quantitative reasoning. The student models addition (joining) and subtraction (separating).	
The student is expected to model and create addition and subtraction problems in real situations with concrete objects.	TG: 24–26, 39–40, 48–49, 62–66, 77–78, 90–91, 105–106, 120–121, 131–132
(K.5) Patterns, relationships, and algebraic thinking. The student identifies, extends, and creates patterns.	
The student is expected to identify, extend, and create patterns of sounds, physical movement, and concrete objects.	TG: 18–21, 23, 32–34, 46–47, 60–61, 75, 77, 88, 103, 116–117, 129, 132
(K.6) Patterns, relationships, and algebraic thinking. The student uses patterns to make predictions. The student is expected to:	
(A) use patterns to predict what comes next, including cause-and-effect relationships; and	TG: 18–20, 32–34, 46–47, 60–61, 87–88, 102–103, 121–122, 128–129
(B) count by ones to 100.	TG: 18–26, 34–36, 66–67, 75–80, 89–90, 106–108, 120–121
(K.7) Geometry and spatial reasoning. The student describes the relative positions of objects. The student is expected to:	
(A) describe one object in relation to another using informal language such as over, under, above, and below; and	TG: 50–51, 63, 76, 78–79, 105
(B) place an object in a specified position.	TG: 63, 112–113
(K.8) Geometry and spatial reasoning. The student uses attributes to determine how objects are alike and different. The student is expected to:	
(A) describe and identify an object by its attributes using informal language;	TG: 18–21, 23, 28–29, 36, 46–47, 49, 68–69, 70, 83, 86, 102–103, 117, 119, 128, 134–135
(B) compare two objects based on their attributes; and	TG: 18–21, 23, 36, 68–70, 82–83
(C) sort a variety of objects including two- and three-dimensional geometric figures according to their attributes and describe how the objects are sorted.	TG: 18–21, 36, 46, 49, 60–61, 68–69, 86, 102–103, 117, 119, 128, 134–135

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(K.9) Geometry and spatial reasoning. The student recognizes attributes of two- and three-dimensional geometric figures. The student is expected to:	
(A) describe and compare the attributes of real-life objects such as balls, boxes, cans, and cones or models of three-dimensional geometric figures;	TG: 68–70, 82–83
(B) recognize shapes in real-life three-dimensional geometric figures or models of three-dimensional geometric figures; and	TG: 103, 117, 134, 135
(C) describe, identify, and compare circles, triangles, rectangles, and squares (a special type of rectangle).	TG: 20, 27, 29, 46, 47, 51, 61, 108
(K.10) Measurement. The student directly compares the attributes of length, area, weight/mass, capacity, and/or relative temperature. The student uses comparative language to solve problems and answer questions. The student is expected to:	
(A) compare and order two or three concrete objects according to length (longer/shorter than, or the same);	TG: 43, 56–57, 64, 98–99
(B) compare the areas of two flat surfaces of two-dimensional figures (covers more, covers less, or covers the same);	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(C) compare two containers according to capacity (holds more, holds less, or holds the same);	TG: 82–83, 124–125
(D) compare two objects according to weight/mass (heavier than, lighter than, or equal to); and	TG: 68–71
(D) compare situations or objects according to relative temperature (hotter/colder than, or the same as).	TG: 54–55, 80–81, 122–123

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(K.11) Measurement. The student uses time to describe, compare, and order events and situations. The student is expected to:	
(A) compare events according to duration such as more time than or less time than;	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(B) sequence events (up to three); and	TG: 40, 53, 87, 117, 122
(C) read a calendar using days, weeks, and months.	TG: 18–20, 32–33, 46–47, 60–61, 74–75, 87–88, 102–103, 116–117, 128–129
(K.12) Probability and statistics. The student constructs and uses graphs of real objects or pictures to answer questions. The student is expected to:	
(A) construct graphs using real objects or pictures in order to answer questions; and	TG: 41–43, 67–69, 80–81, 122–123
(B) use information from a graph of real objects or pictures in order to answer questions.	TG: 41–43, 67–69, 80–81, 122–123
(K.13) Underlying processes and mathematical tools. The student applies Kindergarten mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify mathematics in everyday situations;	TG: 18–29, 32–43, 46, 47, 48, 49, 50–57, 60–71, 74–83, 86–99, 102–113, 116–125, 128–135
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 22–23, 28, 32–34, 38, 47, 50–53, 61–62, 65–66, 77–80, 91, 112–113, 119–121, 128, 131–132
(C) select or develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and	TG: 22–23, 28, 32–34, 38, 47, 50–53, 61–62, 65–66, 77–80, 91, 112–113, 119–121, 128, 131–132
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 22–23, 28, 32–34, 38, 47, 50–53, 61–62, 65–66, 77–80, 91, 112–113, 119–121, 128, 131–132

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(K.14) Underlying processes and mathematical tools. The student communicates about Kindergarten mathematics using informal language. The student is expected to:	
(A) communicate mathematical ideas using objects, words, pictures, numbers, and technology; and	TG: 23, 38, 41, 52, 65, 67, 78, 90, 96, 106, 108, 120
(B) relate everyday language to mathematical language and symbols.	TG: 37, 39, 65, 68–69, 77, 88, 93, 105–106, 108, 113, 121, 135
(K.15) Underlying processes and mathematical tools. The student uses logical reasoning.	
The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.	TG: 22–23, 51, 80, 91, 131–132

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Texas Essential Knowledge and Skills for Mathematics
Grade 1

Texas Essential Knowledge and Skills for Mathematics, Grade 1	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(1.1) Number, operation, and quantitative reasoning. The student uses whole numbers to describe and compare quantities. The student is expected to:	
(A) compare and order whole numbers up to 99 (less than, greater than, or equal to) using sets of concrete objects and pictorial models;	TG: 18–20, 20–31, 34–36, 40–42, 48–49, 55–57, 62–64, 68–69, 74–75, 87–88, 91–92, 102–103, 105–106, 116–117, 123–125, 128–132
(B) create sets of tens and ones using concrete objects to describe, compare, and order whole numbers;	TG: 24–27, 36–38, 40–42, 52–53, 66–67, 80–81, 86, 91–94, 107–108, 121–122, 131–132
(C) identify individual coins by name and value and describe relationships among them; and	TG: 57–59, 69–70, 80–81, 95–96, 102–103, 108–109, 133
(D) read and write numbers to 99 to describe sets of concrete objects.	TG: 30–31, 48–49, 62–64, 66–67, 74–75, 77–78, 87–88, 91–92, 102–103, 116–117, 128–130
(1.2) Number, operation, and quantitative reasoning. The student uses pairs of whole numbers to describe fractional parts of whole objects or sets of objects. The student is expected to:	
(A) separate a whole into two, three, or four equal parts and use appropriate language to describe the parts such as three out of four equal parts; and	TG: 56, 89, 102–103
(B) use appropriate language to describe part of a set such as three out of the eight crayons are red.	The opportunity to address this objective can be found on the following pages. TG: 43, 54–57, 87–88, 95–96, 98, 102–103

Texas Essential Knowledge and Skills for Mathematics, Grade 1	<i>Every Day Counts Calendar Math</i>
(1.3) Number, operation, and quantitative reasoning. The student recognizes and solves problems in addition and subtraction situations. The student is expected to:	
(A) model and create addition and subtraction problem situations with concrete objects and write corresponding number sentences; and	TG: 21–23, 36–38, 50–51, 64–67, 75–77, 89–90, 104–105, 117–119, 130–131
(B) use concrete and pictorial models to apply basic addition and subtraction facts (up to $9 + 9 = 18$ and $18 - 9 = 9$).	TG: 21–23, 36–38, 50–51, 64–65, 67, 75–77, 89–90, 104–105, 117–119, 130–131
(1.4) Patterns, relationships, and algebraic thinking. The student uses repeating patterns and additive patterns to make predictions.	
The student is expected to identify, describe, and extend concrete and pictorial patterns in order to make predictions and solve problems.	TG: 18–20, 24–27, 34–35, 40–42, 48–49, 62–63, 74–75, 79, 87–88, 98–99, 102–103, 116–117, 128–129, 130, 132
(1.5) Patterns, relationships, and algebraic thinking. The student recognizes patterns in numbers and operations. The student is expected to:	
(A) use patterns to skip count by twos, fives, and tens;	TG: 28–30, 40–43, 57–59, 77–78, 80–82, 87–88, 91–94, 95–96, 97–99, 110, 131–132
(B) find patterns in numbers, including odd and even;	TG: 55–57, 87–88, 98–99
(C) compare and order whole numbers using place value;	TG: 24–26, 36–37, 40–42, 52–53, 66–67, 80–81, 86, 91–96, 107–109, 121–122, 131–132
(D) use patterns to develop strategies to solve basic addition and basic subtraction problems; and	TG: 64–65, 89–90, 104–105, 107–108, 117–119, 121–122, 130–132
(E) identify patterns in related addition and subtraction sentences (fact families for sums to 18) such as $2 + 3 = 5$, $3 + 2 = 5$, $5 - 2 = 3$, and $5 - 3 = 2$.	TG: 21–23, 37, 64–67, 75–77, 104, 130–131

Texas Essential Knowledge and Skills for Mathematics, Grade 1	<i>Every Day Counts Calendar Math</i>
(1.6) Geometry and spatial reasoning. The student uses attributes to identify two- and three-dimensional geometric figures. The student compares and contrasts two- and three-dimensional geometric figures or both. The student is expected to:	
(A) describe and identify two-dimensional geometric figures, including circles, triangles, rectangles, and squares (a special type of rectangle);	TG: 34–35, 48–49, 87–88, 116–117
(B) describe and identify three-dimensional geometric figures, including spheres, rectangular prisms (including cubes), cylinders, and cones;	TG: 62–64, 105–106, 128–130, 134–135
(C) describe and identify two- and three-dimensional geometric figures in order to sort them according to a given attribute using informal and formal language; and	TG: 34–35, 48–49, 62–64, 87–88, 105–106, 116–117, 128–130, 134–135
(D) use concrete models to combine two-dimensional geometric figures to make new geometric figures.	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(1.7) Measurement. The student directly compares the attributes of length, area, weight/mass, capacity, and temperature. The student uses comparative language to solve problems and answer questions. The student selects and uses nonstandard units to describe length. The student is expected to:	
(A) estimate and measure length using nonstandard units such as paper clips or sides of color tiles;	TG: 38–40, 54–55, 86
(B) compare and order two or more concrete objects according to length (from longest to shortest);	TG: 38–40, 54–55, 86
(C) describe the relationship between the size of the unit and the number of units needed to measure the length of an object;	TG: 38–40
(D) compare and order the area of two or more two-dimensional surfaces (from covers the most to covers the least);	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(E) compare and order two or more containers according to capacity (from holds the most to holds the least);	TG: 105–106

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(F) compare and order two or more objects according to weight/mass (from heaviest to lightest); and	TG: 119–121
(G) compare and order two or more objects according to relative temperature (from hottest to coldest).	TG: 44–45, 123–125
(1.8) Measurement. The student understands that time can be measured. The student uses time to describe and compare situations. The student is expected to:	
(A) order three or more events according to duration; and	TG: 81–82, 97–98
(B) read time to the hour and half-hour using analog and digital clocks.	TG: 28–30, 43, 57–59, 70–71, 81–82, 97–98, 110–111
(1.9) Probability and statistics. The student displays data in an organized form. The student is expected to:	
(A) collect and sort data; and	TG: 30–31, 34–36, 44–45, 62–64, 70–71, 74–75, 81–83, 87–88, 95–96, 98–99, 111–112, 123–125, 128–130
(B) use organized data to construct real object graphs, picture graphs, and bar-type graphs.	TG: 30–31, 44–45, 83, 98–99, 111–112, 123–125, 134–135
(1.10) Probability and statistics. The student uses information from organized data. The student is expected to:	
(A) draw conclusions and answer questions using information organized in real-object graphs, picture graphs, and bar-type graphs; and	TG: 30–31, 44–45, 83, 98–99, 111–112, 123–125, 134–135
(B) identify events as certain or impossible such as drawing a red crayon from a bag of green crayons.	TG: 34–36, 55–57, 66–67, 70, 87–88

Texas Essential Knowledge and Skills for Mathematics, Grade 1	<i>Every Day Counts Calendar Math</i>
(1.11) Underlying processes and mathematical tools. The student applies Grade 1 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify mathematics in everyday situations	TG: 21–30, 34–38, 40–42, 48–49, 57–59, 62–64, 66–67, 74–75, 79–81, 86–88, 95–96, 108–109, 119–122, 133
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 21–30, 34–38, 40–42, 48–49, 57–59, 62–64, 66–67, 74–75, 79–81, 86–88, 95–96, 108–109, 119–122, 133
(C) select or develop an appropriate problem-solving plan or strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and	TG: 21–30, 34–38, 40–42, 48–49, 57–59, 62–64, 66–67, 74–75, 79–81, 86–88, 95–96, 108–109, 119–122, 133
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 21–30, 34–38, 40–42, 48–49, 57–59, 62–64, 66–67, 74–75, 79–81, 86–88, 95–96, 108–109, 119–122, 133
(1.12) Underlying processes and mathematical tools. The student communicates about Grade 1 mathematics using informal language. The student is expected to:	
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	TG: 21–23, 36–38, 105–106, 111–113, 117–119
(B) relate informal language to mathematical language and symbols.	TG: 21–23, 36–37, 90, 117–119, 130–131
(1.13) Underlying processes and mathematical tools. The student uses logical reasoning.	
The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.	TG: 27, 30–31, 34–36, 79–81, 90, 95–96, 105–106, 111–113, 133

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Grade 2

Texas Essential Knowledge and Skills for Mathematics, Grade 2	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(2.1) Number, operation, and quantitative reasoning. The student understands how place value is used to represent whole numbers. The student is expected to:	
(A) use concrete models of hundreds, tens, and ones to represent a given whole number (up to 999) in various ways;	TG: 23–25, 36–37, 53–54, 64–67, 75–77, 80–81, 89–90, 94–96, 109–110, 121–122, 127–128
(B) use place value to read, write, and describe the value of whole numbers to 999; and	TG: 23–25, 36–37, 53–54, 64–67, 75–77, 80–81, 89–90, 94–96, 109–110, 121–122, 127–128
(C) use place value to compare and order whole numbers to 999 and record the comparisons using numbers and symbols (<, =, >).	TG: 23–25, 36–37, 53–54, 64–67, 75–77, 80–81, 89–90, 94–96, 109–110, 121–122, 127–128
(2.2) Number, operation, and quantitative reasoning. The student describes how fractions are used to name parts of whole objects or sets of objects. The student is expected to:	
(A) use concrete models to represent and name fractional parts of a whole object (with denominators of 12 or less);	TG: 27–29, 105–108
(B) use concrete models to represent and name fractional parts of a set of objects (with denominators of 12 or less); and	TG: 58–59, 87
(C) use concrete models to determine if a fractional part of a whole is closer to 0, $\frac{1}{2}$, or 1.	TG: 107–108

Texas Essential Knowledge and Skills for Mathematics, Grade 2	<i>Every Day Counts Calendar Math</i>
(2.3) Number, operation, and quantitative reasoning. The student adds and subtracts whole numbers to solve problems. The student is expected to:	
(A) recall and apply basic addition and subtraction facts (to 18);	TG: 20–22, 34–36, 48–50, 53 55, 63, 64–66, 74–77, 81, 88–91, 109–110, 128
(B) model addition and subtraction of two-digit numbers with objects, pictures, words, and numbers;	TG: 20–22, 34–36, 48–50, 53 55, 63, 64–66, 74–77, 81, 88–91, 109–110, 128
(C) select addition or subtraction to solve problems using two-digit numbers, whether or not regrouping is necessary;	TG: 53, 64–66, 76–77, 88–91
(D) determine the value of a collection of coins up to one dollar; and	TG: 25–26, 37–38, 55–56, 68, 81–82, 96–97, 109–111, 122–123
(E) describe how the cent symbol, dollar symbol, and the decimal point are used to name the value of a collection of coins.	TG: 25–26, 37–38, 55–56, 68, 81–82, 96–97, 109–111, 122–123
(2.4) Number, operation, and quantitative reasoning. The student models multiplication and division. The student is expected to:	
(A) model, create, and describe multiplication situations in which equivalent sets of concrete objects are joined; and	TG: 51–52, 104–105
(B) model, create, and describe division situations in which a set of concrete objects is separated into equivalent sets.	TG: 117–119
(2.5) Patterns, relationships, and algebraic thinking. The student uses patterns in numbers and operations. The student is expected to:	
(A) find patterns in numbers such as in a 100s chart;	TG: 19–20, 23, 32–33, 37, 47, 53, 63, 67, 80, 109
(B) use patterns in place value to compare and order whole numbers through 999; and	TG: 23–24, 36–37, 53–55, 64–67, 75–77, 80–81, 89–90, 94–96, 109–110, 121–122, 127–128

Texas Essential Knowledge and Skills for Mathematics, Grade 2	<i>Every Day Counts Calendar Math</i>
(C) use patterns and relationships to develop strategies to remember basic addition and subtraction facts. Determine patterns in related addition and subtraction number sentences (including fact families) such as $8 + 9 = 17$, $9 + 8 = 17$, $17 - 8 = 9$, and $17 - 9 = 8$.	TG: 20–22, 34–36, 48–50, 62–64, 74–75, 88–89
(2.6) Patterns, relationships, and algebraic thinking. The student uses patterns to describe relationships and make predictions. The student is expected to:	
(A) generate a list of paired numbers based on a real-life situation such as number of tricycles related to number of wheels;	TG: 126–127
(B) identify patterns in a list of related number pairs based on a real-life situation and extend the list; and	TG: 126–127
(C) identify, describe, and extend repeating and additive patterns to make predictions and solve problems.	TG: 18–20, 23–25, 32–34, 46–48, 62–63, 72–73, 102–103, 116, 126–127
(2.7) Geometry and spatial reasoning. The student uses attributes to identify two- and three-dimensional geometric figures. The student compares and contrasts two- and three-dimensional figures or both. The student is expected to:	
(A) describe attributes (the number of vertices, faces, edges, sides) of two- and three-dimensional geometric figures such as circles, polygons, spheres, cones, cylinders, prisms, and pyramids, etc.;	TG: 18–19, 32–34, 46–48, 62–63, 72–73, 87, 98–99, 102–103, 116, 130–131
(B) use attributes to describe how 2 two-dimensional figures or 2 three-dimensional geometric figures are alike or different; and	TG: 18–19, 32–34, 46–48, 62–63, 72–73, 87, 98–99, 102–103, 116, 130–131
(C) cut two-dimensional geometric figures apart and identify the new geometric figures formed.	TG: 73

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(2.8) Geometry and spatial reasoning. The student recognizes that a line can be used to represent a set of numbers and its properties.	
The student is expected to use whole numbers to locate and name points on a number line.	TG: 23–24, 36–37, 53–54, 66–67, 80–81, 94–95, 109–110, 121–122, 127–128
(2.9) Measurement. The student directly compares the attributes of length, area, weight/mass, and capacity, and uses comparative language to solve problems and answer questions. The student selects and uses nonstandard units to describe length, area, capacity, and weight/mass. The student recognizes and uses models that approximate standard units (from both SI, also known as metric, and customary systems) of length, weight/mass, capacity, and time. The student is expected to:	
(A) identify concrete models that approximate standard units of length and use them to measure length;	TG: 50–52, 86, 92–93
(B) select a non-standard unit of measure such as square tiles to determine the area of a two-dimensional surface;	TG: 86
(C) select a non-standard unit of measure such as a bathroom cup or a jar to determine the capacity of a given container; and	TG: 107–108, 119–121
(D) select a non-standard unit of measure such as beans or marbles to determine the weight/mass of a given object.	TG: 58–59
(2.10) Measurement. The student uses standard tools to estimate and measure time and temperature (in degrees Fahrenheit). The student is expected to:	
(A) read a thermometer to gather data;	TG: 78–80
(B) read and write times shown on analog and digital clocks using five-minute increments; and	TG: 39–41, 57, 68–69, 91–92, 105–106
(C) describe activities that take approximately one second, one minute, and one hour.	TG: 41, 69
(2.11) Probability and statistics. The student organizes data to make it useful for interpreting information. The student is expected to:	
(A) construct picture graphs and bar-type graphs;	TG: 27–29, 41–43, 58–59, 78–80, 98–99
(B) draw conclusions and answer questions based on picture graphs and bar-type graphs; and	TG: 27–29, 41–43, 58–59, 78–80, 98–99

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(C) use data to describe events as more likely or less likely such as drawing a certain color crayon from a bag of seven red crayons and three green crayons.	TG: 98–99, 111–113
(2.12) Underlying processes and mathematical tools. The student applies Grade 2 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify the mathematics in everyday situations;	TG: 20–22, 34–38, 48–50, 53–56, 63–66, 74–77, 81, 88, 90–91, 96–97, 109–110, 128
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 18–20, 20–22, 34–36, 37–38, 46–50, 55–56, 62–66, 74–75, 80–83, 88–91, 103–104, 110–111, 119–121, 128–129
(C) select or develop an appropriate problem-solving plan or strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and	TG: 18–20, 20–22, 34–36, 37–38, 46–50, 55–56, 62–66, 74–75, 80–83, 88–91, 103–104, 110–111, 119–121, 128–129
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 18–20, 20–22, 34–36, 37–38, 46–50, 55–56, 62–66, 74–75, 80–83, 88–91, 103–104, 110–111, 119–121, 128–129
(2.13) Underlying processes and mathematical tools. The student communicates about Grade 2 mathematics using informal language. The student is expected to:	
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	TG: 18–29, 32–43, 46–49, 50–59, 62–69, 72–83, 86–99, 102–113, 116–123, 126–131
(B) relate informal language to mathematical language and symbols.	TG: 18–29, 32–43, 46, 47, 48, 49, 50–59, 62–69, 72–83, 86–99, 102–113, 116–123, 126–131
(2.14) Underlying processes and mathematical tools. The student uses logical reasoning.	
The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.	TG: 42–43, 55–56, 86, 96–97, 102–103, 119–121, 128–129

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Texas Essential Knowledge and Skills for Mathematics
Grade 3

Texas Essential Knowledge and Skills for Mathematics, Grade 3	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(3.1) Number, operation, and quantitative reasoning. The student uses place value to communicate about increasingly large whole numbers in verbal and written form, including money. The student is expected to:	
(A) use place value to read, write (in symbols and words), and describe the value of whole numbers through 999,999;	TG: 23–27, 39–42, 57–58, 64, 70, 82–83, 95–97, 118–119, 121–124, 133–134
(B) use place value to compare and order whole numbers through 9,999; and	TG: 41–42, 55–57, 69–70, 80–82, 108–109
(C) determine the value of a collection of coins and bills.	TG: 26–27, 41–44, 57–60, 70–71, 95–98, 109–111, 123–125, 133–134
(3.2) Number, operation, and quantitative reasoning. The student uses fraction names and symbols (with denominators of 12 or less) to describe fractional parts of whole objects or sets of objects. The student is expected to:	
(A) construct concrete models of fractions;	TG: 51–53, 88–89, 91–93, 116–117
(B) compare fractional parts of whole objects or sets of objects in a problem situation using concrete models;	TG: 88–89
(C) use fraction names and symbols to describe fractional parts of whole objects or sets of objects; and	TG: 51–53, 88–89, 91–93, 116–117
(D) construct concrete models of equivalent fractions for fractional parts of whole objects.	TG: 93, 116–117

Texas Essential Knowledge and Skills for Mathematics, Grade 3	<i>Every Day Counts Calendar Math</i>
(3.3) Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers. The student is expected to:	
(A) model addition and subtraction using pictures, words, and numbers; and	TG: 23–25, 33–35, 48–51, 55–58, 80–82, 93–97, 108–109, 121–122, 125
(B) select addition or subtraction and use the operation to solve problems involving whole numbers through 999.	TG: 23–25, 33–35, 48–51, 55–58, 80–82, 93–97, 108–109, 121–122, 125
(3.4) Number, operation, and quantitative reasoning. The student recognizes and solves problems in multiplication and division situations. The student is expected to:	
(A) learn and apply multiplication facts through 12 by 12 using concrete models and objects;	TG: 40, 66–68, 70, 76–78, 80–82, 90–91, 93–95, 118–119, 121–123, 130–131
(B) solve and record multiplication problems (up to two digits times one digit); and	TG: 40, 66–68, 70, 76–78, 118–119, 121–123, 130–131
(C) use models to solve division problems and use number sentences to record the solutions.	TG: 69–70, 103–105, 118–119, 130–131, 134
(3.5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:	
(A) round whole numbers to the nearest ten or hundred to approximate reasonable results in problem situations; and	TG: 55–56, 69–70, 80–82, 88, 93–97, 109–110, 121–122
(B) use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.	TG: 26–27, 41–42, 55–57, 69–71, 82–83, 109–110, 120–121, 123–124, 133–134
(3.6) Patterns, relationships, and algebraic thinking. The student uses patterns to solve problems. The student is expected to:	
(A) identify and extend whole-number and geometric patterns to make predictions and solve problems;	TG: 18–20, 23–25, 32–33, 48–49, 64–65, 74–76, 88–89, 95–97, 102–103, 116–117
(B) identify patterns in multiplication facts using concrete objects, pictorial models, or technology; and	TG: 18–20, 23–25, 32–33, 39–40, 48–49, 55–57, 64–65, 66–68, 74–78, 74–78, 80–82, 88–91, 93–95, 108–109, 118–119, 121–123, 132–134

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(C) identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$, $3 \times 2 = 6$, $6 \div 2 = 3$, $6 \div 3 = 2$.	TG: 122, 130–131
(3.7) Patterns, relationships, and algebraic thinking. The student uses lists, tables, and charts to express patterns and relationships. The student is expected to:	
(A) generate a table of paired numbers based on a real-life situation such as insects and legs; and	TG: 102–103
(B) identify and describe patterns in a table of related number pairs based on a meaningful problem and extend the table.	TG: 102–103
(3.8) Geometry and spatial reasoning. The student uses formal geometric vocabulary.	
The student is expected to identify, classify, and describe two- and three-dimensional geometric figures by their attributes. The student compares two-dimensional figures, three-dimensional figures, or both by their attributes using formal geometry vocabulary.	TG: 18–20, 32–33, 48–49, 64–65, 74–76, 116, 121–122, 128–129
(3.9) Geometry and spatial reasoning. The student recognizes congruence and symmetry. The student is expected to:	
(A) identify congruent two-dimensional figures;	TG: 48–49, 64–65, 78–80, 116–117
(B) create two-dimensional figures with lines of symmetry and concrete models and technology; and	TG: 116–117
(C) identify lines of symmetry in two-dimensional geometric figures.	TG: 116–117
(3.10) Geometry and spatial reasoning. The student recognizes that a line can be used to represent numbers and fractions and their properties and relationships.	
The student is expected to locate and name points on a number line using whole numbers and fractions, including halves and fourths.	TG: 23–25, 39–40, 55–57, 69–70, 80–82, 88, 93–95, 108–109, 121–123, 132–133

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(3.11) Measurement. The student directly compares the attributes of length, area, weight/mass, and capacity and uses comparative language to solve problems and answer questions. The student selects and uses standard units to describe length, area, capacity/volume, and weight/mass. The student is expected to:	
(A) use linear measurement tools to estimate and measure lengths using standard units;	TG: 35–37, 51–53, 78–80
(B) use standard units to find the perimeter of a shape;	TG: 78–80
(C) use concrete and pictorial models of square units to determine the area of two-dimensional surfaces;	TG: 78–80
(D) identify concrete models that approximate standard units of weight/mass and use them to measure weight/mass;	TG: 105–106
(E) identify concrete models that approximate standard units for capacity and use them to measure capacity; and	TG: 91–93, 120–121
(F) use concrete models that approximate cubic units to determine the volume of a given container or other three-dimensional geometric figure.	TG: 91–93, 120–121
(3.12) Measurement. The student reads and writes time and measures temperature in degrees Fahrenheit to solve problems. The student is expected to:	
(A) use a thermometer to measure temperature; and	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(B) tell and write time shown on analog and digital clocks.	TG: 37–39, 53–55, 68, 88, 107–108
(3.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:	
(A) collect, organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data;	TG: 28–29, 44–45, 84–85, 112–113, 134–135
(B) interpret information from pictographs and bar graphs; and	TG: 28–29, 44–45, 84–85, 112–113, 134–135

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(C) use data to describe events as more likely than, less likely than, or equally likely as.	TG: 28–29, 48–49, 98–99
(3.14) Underlying processes and mathematical tools. The student applies Grade 3 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify the mathematics in everyday situations;	TG: 18–20, 26–29, 32–33, 36–45, 48–49, 52–61, 64–71, 74–85, 88–99, 102–113, 116–125, 128–135
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 20–25, 32–35, 42–44, 48–49, 55–57, 60–61, 64–65, 68–70, 76–78, 80–82, 102–103, 110–111, 116–117, 118–119, 123–124, 128–129, 134–135
(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and	TG: 20–25, 32–35, 42–44, 48–49, 55–57, 60–61, 64–65, 68–70, 76–78, 80–82, 102–103, 110–111, 116–117, 118–119, 123–124, 128–129
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 20–25, 32–35, 42–44, 48–49, 55–57, 60–61, 64–65, 68–70, 76–78, 80–82, 102–103, 110–111, 116–117, 118–119, 123–124, 128–129
(3.15) Underlying processes and mathematical tools. The student communicates about Grade 3 mathematics using informal language. The student is expected to:	
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	TG: 20–23, 44–45, 69–70, 80–82, 108–109
(B) relate informal language to mathematical language and symbols.	TG: 20–23, 69–70, 76–78, 80–82, 103–105, 108–109
(3.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:	
(A) make generalizations from patterns or sets of examples and nonexamples; and	TG: 18–20, 23–25, 28–29, 32–33, 48–49, 64–65, 74–76, 88–89, 95–97, 98–99, 102–103, 116–117
(B) justify why an answer is reasonable and explain the solution process.	TG: 28–29, 42–44, 60–61, 74–76, 78–82, 110–111, 128–129

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correlated to
Texas Essential Knowledge and Skills for Mathematics
Grade 4

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(4.1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:	
(A) use place value to read, write, compare, and order whole numbers through 999,999,999; and	TG: 21–22, 34–35, 50–52, 64–65, 79, 94–95, 108–109, 123, 129, 136–137
(B) use place value to read, write, compare, and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models.	TG: 26–28
(4.2) Number, operation, and quantitative reasoning. The student describes and compares fractional parts of whole objects or sets of objects. The student is expected to:	
(A) uses concrete objects and pictorial models to generate equivalent fractions;	TG: 36–37, 52–55, 66–70, 82–84, 126–128
(B) model fraction quantities greater than one using concrete objects and pictorial models;	TG: 36–37, 52–56, 68–70, 81–84, 109–111, 126–128
(C) compare and order fractions using concrete objects and pictorial models; and	TG: 36–37, 54–59
(D) relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models.	TG: 26–28, 101–103, 109–111

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(4.3) Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers and decimals. The student is expected to:	
(A) use addition and subtraction to solve problems involving whole numbers; and	TG: 21–23, 34–36, 50–52, 57–59, 62–66, 72–73, 79–80, 92, 94–95, 108–109, 122–124, 136–137
(B) add and subtract decimals to the hundredths place using concrete objects and pictorial models.	TG: 26–28, 42, 57–59, 66–67, 72, 87–88, 99–100
(4.4) Number, operation, and quantitative reasoning. The student multiplies and divides to solve meaningful problems involving whole numbers. The student is expected to:	
(A) model factors and products using arrays and area models;	TG: 18–20, 23–26, 40–41, 56–57, 70–71, 84–86, 97–98, 111–112
(B) represent multiplication and division situations in picture, word, and number form;	TG: 23–26, 40–41, 56–57, 70–71, 84–86, 97–98, 111–112
(C) recall and apply multiplication facts through 12 x 12;	TG: 18–20, 23–26, 40–41, 50–52, 56–57, 70–71, 79–80, 84–86, 97–98, 111–112, 128–130
(D) use multiplication to solve problems (no more than two digits times two digits without technology); and	TG: 40–41, 56–57, 62–66, 72–73, 84–86, 92–94, 97–98, 111–112, 122–124, 136–139
(E) use division to solve problems (no more than one-digit divisors and three-digit dividends without technology).	TG: 18–20, 23–26, 38–41, 54–57, 66–67, 70–71, 82–83, 85–86, 92–94, 97–98, 136–139
(4.5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:	
(A) round whole numbers to the nearest ten, hundred, or thousand to approximate reasonable results in problem situations; and	TG: 50–52, 94–95, 108–109
(B) use strategies including rounding and compatible numbers to estimate solutions to multiplication and division problems.	TG: 63–66, 113, 136–137

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(4.6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:	
(A) use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as $9 \times 9 = 81$ and $81 \div 9 = 9$); and	TG: 18–20, 23–26, 32–34, 40–41, 43–44, 48–52, 56–57, 62–63, 70–71, 79–80, 84–86, 92–94, 97–98, 106–108, 111–112, 128–130, 137–139
(B) use patterns to multiply by 10 and 100.	TG: 50–52, 79
(4.7) Patterns, relationships, and algebraic thinking. The student uses organizational structures to analyze and describe patterns and relationships.	
The student is expected to describe the relationship between two sets of related data such as ordered pairs in a table.	TG: 32–34, 76–78, 106–108
(4.8) Geometry and spatial reasoning. The student identifies and describes attributes of geometric figures using formal geometric language. The student is expected to:	
(A) identify and describe right, acute, and obtuse angles;	TG: 92–94, 106–108
(B) identify and describe models of parallel and intersecting (including perpendicular) lines using concrete objects and pictorial models; and	TG: 18–20, 48–50, 62–63
(C) use essential attributes to define two- and three-dimensional geometric figures.	TG: 32–34, 48–50, 76–78, 106–108
(4.9) Geometry and spatial reasoning. The student connects transformations to congruence and symmetry. The student is expected to:	
(A) demonstrate translations, reflections, and rotations using concrete models;	TG: 18–20, 32–34, 48–50, 76–78, 92–94
(B) use translations, reflections, and rotations to verify that two shapes are congruent; and	TG: 18–20, 48–50, 92–94
(C) use reflections to verify that a shape has symmetry.	TG: 32–34, 48–49

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(4.10) Geometry and spatial reasoning. The student recognizes the connection between numbers and their properties and points on a line.	
The student is expected to locate and name points on a number line using whole numbers, fractions such as halves and fourths, and decimals such as tenths.	TG: 54–56
(4.11) Measurement. The student applies measurement concepts. The student is expected to estimate and measure to solve problems involving length (including perimeter) and area. The student uses measurement tools to measure capacity/volume and weight/mass. The student is expected to:	
(A) estimate and use measurement tools to determine length (including perimeter), area, capacity, and weight/mass using standard units SI (metric) and customary;	TG: 36–37, 52–54, 66–67, 81–82, 94–97, 109–110, 115–117, 124–126
(B) perform simple conversions between different units of length, between different units of capacity, and between different units of weight within the customary measurement system;	TG: 36–37, 52–54, 66–67, 81–82, 94–97, 109–110, 115–117
(C) use concrete models of standard cubic units to measure volume;	TG: 52–54, 109–111
(D) estimate volume in cubic units; and	TG: 52–54, 109–111
(E) explain the difference between weight and mass.	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(4.12) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:	
(A) use a thermometer to measure temperature and changes in temperature; and	The opportunity to address this objective can be found on the following pages. TG: 44–45
(B) use tools such as a clock with gears or a stopwatch to solve problems involving elapsed time.	TG: 43–44, 59, 72–73, 100–101, 113–115, 130–131

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(4.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:	
(A) use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation; and	TG: 26–27, 28–29, 101–103
(B) interpret bar graphs.	TG: 28–29, 88–89
(4.14) Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify the mathematics in everyday situations;	TG: 18–20, 32–34, 48–50, 62–63, 76–78, 92–94, 106–108, 120–122, 134–136
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 18–20, 36–37, 38–40, 48–50, 63–66, 87–88, 92–94, 95–97, 111–112, 122–124, 134–136
(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and	TG: 18–20, 36–37, 38–40, 48–50, 63–66, 87–88, 92–94, 95–97, 111–112, 122–124, 134–136
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 18–20, 21–23, 36–37, 38–40, 48–50, 63–66, 79–80, 87–88, 92–94, 95–97, 111–112, 122–124, 134–136
(4.15) Underlying processes and mathematical tools. The student communicates about Grade 4 mathematics using informal language. The student is expected to:	
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	TG: 28–29, 88–89, 115–117, 120–121, 126–127
(B) relate informal language to mathematical language and symbols.	TG: 23–26, 38–40, 72–73, 112, 115–117, 126–127

Texas Essential Knowledge and Skills for Mathematics, Grade 4	<i>Every Day Counts Calendar Math</i>
(4.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:	
(A) make generalizations from patterns or sets of examples and nonexamples; and	TG: 18–20, 32–34, 44–45, 48–50, 62–63, 76–78, 92–94, 106–108, 120–122, 134–136
(B) justify why an answer is reasonable and explain the solution process.	TG: 18–20, 48–50, 87–88, 92–94, 122–124, 129, 134–136

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Texas Essential Knowledge and Skills for Mathematics
Grade 5

Texas Essential Knowledge and Skills for Mathematics, Grade 5	<i>Every Day Counts Calendar Math</i>
(b) Knowledge and skills.	
(5.1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:	
(A) use place value to read, write, compare, and order whole numbers through 999,999,999,999; and	TG: 21–24, 37–38
(B) use place value to read, write, compare, and order decimals through the thousandths place.	TG: 25–28, 44–45
(5.2) Number, operation, and quantitative reasoning. The student uses fractions in problem-solving situations. The student is expected to:	
(A) generate a fraction equivalent to a given fraction such as $\frac{1}{2}$ and $\frac{3}{6}$ or $\frac{4}{12}$ and $\frac{1}{3}$;	TG: 25–28, 44–45, 56, 70–71, 79–81, 98–99, 110, 121, 133
(B) generate a mixed number equivalent to a given improper fraction or generate an improper fraction equivalent to a given mixed number;	TG: 41, 53, 93, 96–97, 110
(C) compare two fractional quantities in problem-solving situations using a variety of methods, including common denominators; and	TG: 25–28, 44–45, 56, 70–71, 81, 98–99, 110, 121, 133
(D) use models to relate decimals to fractions that name tenths, hundredths, and thousandths.	TG: 25–28, 44–45, 56, 70–71, 81, 98–99, 110, 121, 133

Texas Essential Knowledge and Skills for Mathematics, Grade 5	<i>Every Day Counts Calendar Math</i>
(5.3) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve meaningful problems. The student is expected to:	
(A) use addition and subtraction to solve problems involving whole numbers and decimals;	TG: 21–25, 36–38, 49–50, 55, 57–59, 62, 70–71, 82–83, 91, 97, 98–99, 106, 117–119, 128–130
(B) use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology);	TG: 24–25, 48–49, 54–56, 62, 66–68, 77–78, 83, 90–91, 117
(C) use division to solve problems involving whole numbers (no more than two-digit divisors and three-digit dividends without technology);	TG: 41–43, 54–56, 62, 66–68, 77–78, 90–91
(D) identify common factors of a set of whole numbers; and	TG: 65, 78, 90–91
(E) model situations using addition and/or subtraction involving fractions with like denominators using concrete objects, pictures, words, and numbers.	TG: 40–41, 53, 65, 70–71, 86, 94
(5.4) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results.	
The student is expected to use strategies including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplication, and division problems.	TG: 37–38, 124
(5.5) Patterns, relationships, and algebraic thinking. The student makes generalizations based on observed patterns and relationships. The student is expected to:	
(A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts, and diagrams; and	TG: 48–49, 82–83, 112–113, 116–118, 129
(B) identify prime and composite numbers using concrete objects, pictorial models, and patterns in factor pairs.	TG: 41–44, 54–55, 63–64, 74–76, 130–131

Texas Essential Knowledge and Skills for Mathematics, Grade 5	<i>Every Day Counts Calendar Math</i>
(5.6) Patterns, relationships, and algebraic thinking. The student describes relationships mathematically.	
The student is expected to select from and use diagrams and equations such as $y = 5 + 3$ to represent meaningful problem situations.	TG: 48–49, 82–83, 112–113, 116–118, 129
(5.7) Geometry and spatial reasoning. The student generates geometric definitions using critical attributes.	
The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two- and three-dimensional geometric figures.	TG: 18–21, 34–37, 48–49, 74–76, 102–104, 116–118
(5.8) Geometry and spatial reasoning. The student models transformations. The student is expected to:	
(A) sketch the results of translations, rotations, and reflections on a Quadrant I coordinate grid; and	The opportunity to address this objective can be found on the following pages. TG: 18–21, 36, 48–49, 74–76, 109, 116–118
(B) identify the transformation that generates one figure from the other when given two congruent figures on a Quadrant I coordinate grid.	The opportunity to address this objective can be found on the following pages. TG: 18–21, 36, 48–49, 74–76, 109, 116–118
(5.9) Geometry and spatial reasoning. The student recognizes the connection between ordered pairs of numbers and locations of points on a plane.	
The student is expected to locate and name points on a coordinate grid using ordered pairs of whole numbers.	TG: 82–83
(5.10) Measurement. The student applies measurement concepts involving length (including perimeter), area, capacity/volume, and weight/mass to solve problems. The student is expected to:	
(A) perform simple conversions within the same measurement system (SI (metric) or customary);	TG: 59, 79–80, 94–98, 118–120
(B) connect models for perimeter, area, and volume with their respective formulas; and	TG: 55, 91
(C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.	TG: 55, 82–83, 91, 96–97, 109, 118–120

Texas Essential Knowledge and Skills for Mathematics, Grade 5	<i>Every Day Counts Calendar Math</i>
(5.11) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:	
(A) solve problems involving changes in temperature; and	This objective falls outside the scope of Great Source <i>Every Day Counts Calendar Math</i> .
(B) solve problems involving elapsed time.	TG: 69–70, 86
(5.12) Probability and statistics. The student describes and predicts the results of a probability experiment. The student is expected to:	
(A) use fractions to describe the results of an experiment;	TG: 28–31, 94, 111–112, 118–120
(B) use experimental results to make predictions; and	TG: 28–31, 111–112, 118–120
(C) list all possible outcomes of a probability experiment such as tossing a coin.	TG: 28–31, 94, 111–112, 118–120
(5.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:	
(A) use tables of related number pairs to make line graphs;	TG: 118, 122–125
(B) describe characteristics of data presented in tables and graphs including median, mode, and range; and	TG: 57–59
(C) graph a given set of data using an appropriate graphical representation such as a picture or line graph.	TG: 118, 122–125
(5.14) Underlying processes and mathematical tools. The student applies Grade 5 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	
(A) identify the mathematics in everyday situations;	TG: 18–21, 34–36, 48–49, 63–64, 74–75, 87–89, 102–103, 116–118, 128–130
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 18–24, 34–37, 45, 48–49, 57–59, 62–64, 68, 74–76, 82–83, 86–91, 102–104, 116–118, 129, 132

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(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and	TG: 18–24, 34–37, 45, 48–49, 57–59, 62–64, 68, 74–76, 82–83, 86–91, 102–104, 116–118, 129, 132
(D) use tools such as real objects, manipulatives, and technology to solve problems.	TG: 18–24, 34–37, 45, 48–49, 57–59, 62–64, 68, 74–76, 82–83, 86–91, 102–104, 116–118, 122, 129, 132
(5.15) Underlying processes and mathematical tools. The student communicates about Grade 5 mathematics using informal language. The student is expected to:	
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	TG: 18–21, 28–31, 34–36, 48–49, 63–64, 74–75, 87–89, 102–103, 116–118, 128–130
(B) relate informal language to mathematical language and symbols.	TG: 34–35, 44–45, 57–59, 102–103
(5.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:	
(A) make generalizations from patterns or sets of examples and nonexamples; and	TG: 18–21, 28–31, 34–37, 48–49, 63–64, 74–75, 82, 87–89, 102–103, 116–118, 128–130
(B) justify why an answer is reasonable and explain the solution process.	TG: 18–21, 34–37, 48–49, 63–64, 68, 74–76, 87–88, 102–104, 116–118

Every Day Counts Algebra Readiness Kit
correlated to
Texas Essential Knowledge and Skills for Mathematics
Grade 6

Texas Essential Knowledge and Skills for Mathematics, Grade 6	<i>Every Day Counts Algebra Readiness Kit</i>
(b) Knowledge and skills.	
(6.1) Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms. The student is expected to:	
(A) compare and order non-negative rational numbers;	TG: 24-25, 26-27, 28-30, 55-56, 72-73, 91-92, 109
(B) generate equivalent forms of rational numbers including whole numbers, fractions, and decimals;	TG: 30, 42-43, 55-56, 72-73, 91-92, 109, 125
(C) use integers to represent real-life situations;	TG: 131-132, 133-134, 154-155, 156-158, 164-166
(D) write prime factorizations using exponents;	TG: 54, 71-72
(E) identify factors of a positive integer, common factors, and the greatest common factor of a set of positive integers; and	TG: 24-26, 27-28, 41-42, 56-54, 71-72, 88-91
(F) identify multiples of a positive integer and common multiples and the least common multiple of a set of positive integers.	TG: 26-28
(6.2) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve problems and justify solutions. The student is expected to:	
(A) model addition and subtraction situations involving fractions with objects, pictures, words, and numbers;	TG: 28-30, 55-57, 72-73, 91-92, 125
(B) use addition and subtraction to solve problems involving fractions and decimals;	TG: 28-30, 55-57, 125

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(C) use multiplication and division of whole numbers to solve problems including situations involving equivalent ratios and rates;	TG: 43-44, 75-76, 78-80, 88-91, 117-118, 136, 189
(D) estimate and round to approximate reasonable results and to solve problems where exact answers are not required; and	TG: 36, 37, 100, 121, 136
(E) use order of operations to simplify whole number expressions (without exponents) in problem solving situations.	TG: 44
(6.3) Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships. The student is expected to:	
(A) use ratios to describe proportional situations;	TG: 177-178, 179-180
(B) represent ratios and percents with concrete models, fractions, and decimals; and	TG: 28-30, 42-43, 55-57, 72-73, 91-92, 109, 145, 167-169, 179
(C) use ratios to make predictions in proportional situations.	TG: 178-180
(6.4) Patterns, relationships, and algebraic thinking. The student uses letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes. The student is expected to:	
(A) use tables and symbols to represent and describe proportional and other relationships such as those involving conversions, arithmetic sequences (with a constant rate of change), perimeter and area; and	TG: 30, 33, 44, 45, 60-62, 63, 114-116, 117, 135-136, 137-139, 177-180
(B) use tables of data to generate formulas representing relationships involving perimeter, area, volume of a rectangular prism, etc.	TG: 114-116, 135-136, 186-187
(6.5) Patterns, relationships, and algebraic thinking. The student uses letters to represent an unknown in an equation.	
(A) The student is expected to formulate equations from problem situations described by linear relationships.	TG: 35, 45-46, 79, 164-166

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(6.6) Geometry and spatial reasoning. The student uses geometric vocabulary to describe angles, polygons, and circles. The student is expected to:	
(A) use angle measurements to classify angles as acute, obtuse, or right;	TG: 128-130
(B) identify relationships involving angles in triangles and quadrilaterals; and	TG: 51, 128
(C) describe the relationship between radius, diameter, and circumference of a circle.	TG: 58, 110-114, 135-136
(6.7) Geometry and spatial reasoning. The student uses coordinate geometry to identify location in two dimensions.	
(A) The student is expected to locate and name points on a coordinate plane using ordered pairs of non-negative rational numbers.	The opportunity to address this objective is available. See the following: TG: 97-98, 122-124
(6.8) Measurement. The student solves application problems involving estimation and measurement of length, area, time, temperature, volume, weight, and angles. The student is expected to:	
(A) estimate measurements (including circumference) and evaluate reasonableness of results;	This objective falls outside the scope of Great Source <i>Every Day Counts Algebra Readiness Kit</i> .
(B) select and use appropriate units, tools, or formulas to measure and to solve problems involving length (including perimeter), area, time, temperature, volume, and weight;	TG: 30-33, 43-44, 60-62, 95, 114-116, 117-120, 135-136, 137-139, 186-189
(C) measure angles; and	The opportunity to address this objective is available. See the following: TG: 57-59, 128-130
(D) convert measures within the same measurement system (customary and metric) based on relationships between units.	TG: 125, 166-169

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(6.9) Probability and statistics. The student uses experimental and theoretical probability to make predictions. The student is expected to:	
(A) construct sample spaces using lists and tree diagrams; and	TG: 159-161, 175-177
(B) find the probabilities of a simple event and its complement and describe the relationship between the two.	TG: 159-161, 175-177
(6.10) Probability and statistics. The student uses statistical representations to analyze data. The student is expected to:	
(A) select and use an appropriate representation for presenting and displaying different graphical representations of the same data including line plot, line graph, bar graph, and stem and leaf plot;	TG: 101-103, 122-124, 182-185
(B) identify mean (using concrete objects and pictorial models), median, mode, and range of a set of data;	TG: 82-83, 101-103
(C) sketch circle graphs to display data; and	TG: 142-145
(D) solve problems by collecting, organizing, displaying, and interpreting data.	TG: 82-83, 101-103, 142-145, 161, 182-185
(6.11) Underlying processes and mathematical tools. The student applies Grade 6 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to:	
(A) identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;	TG: 35-37, 81-83, 98-101, 111, 112, 114, 120-122, 137-139, 182-183
(B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	TG: 24-26, 54, 60-62, 137-139

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(C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and	TG: 24-26, 30-33, 40-41, 54, 60-62, 106-108, 114-116, 137-139, 158
(D) select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems.	TG: 25-26, 35-37, 63-65, 73, 78-81, 92, 98-101, 109, 117-120, 121, 146-147, 154-158, 162-163, 166-169, 177-180
(6.12) Underlying processes and mathematical tools. The student communicates about Grade 6 mathematics through informal and mathematical language, representations, and models. The student is expected to:	
(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and	TG: 30-33, 43-44, 60-62, 95, 97, 98, 108, 114-116, 117, 122-124, 133-134, 135-136, 137-139, 144
(B) evaluate the effectiveness of different representations to communicate ideas.	TG: 142-145
(6.13) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions. The student is expected to:	
(A) make conjectures from patterns or sets of examples and nonexamples; and	TG: 25, 27, 32-33, 107-108
(B) validate his/her conclusions using mathematical properties and relationships.	TG: 28-30, 31-32, 33-35, 43-44, 60-62



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