

PROJECT LEARNING TREE
GRADE PREKINDERGARTEN AND KINDERGARTEN MATHEMATICS:
Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
25	K.5 (p.A-2) Identify, extend, and create patterns of sounds, physical movement, and concrete objects
4	K.7.B (p.A-2) Place an object in a specified position
2, 3, 12, 64	K.8.A (p.A-2) Describe and identify an object by its attributes using informal language
6, 43, 74	K.8.C (p.A-2) Sort objects according to their attributes and describe how those groups are formed
1, 27	K.9.C (p.A-3) Describe, identify, and compare circles, triangles, and rectangles including squares
21, 41, 79	K10.A (p.A-3) Compare and order two or three concrete objects according to length, (shorter or longer, capacity (holds more or holds less), or weight (lighter or heavier)
67	K.10.B (p.A-3) Find concrete objects that are about the same as, less than, or greater than a given object according to length, capacity, or weight
95	K.11.C (p.A-3) Sequence events
16, 22, 36	K.12.A (p.A-3) Construct graphs using real objects or pictures in order to answer questions
46	K.12.B (p.A-3) Use information from a graph of real objects or pictures in order to answer questions
20	K.13.A (p.A-3) Identify mathematics in everyday situations
47	K.13.B (p.A-4) Use a problem-solving model, with guidance, that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
54	K.13.D (p.A-4) Use tools such as real objects, manipulatives, and technology to solve problems
65, 61, 63, 78	K.14.A (p.A-14) Explain and record observations using objects, words, pictures, numbers, and technology
49, 62, 81, 87, 18	K.15 (p.A-4) Reason and support his/her thinking using objects, words, pictures, numbers, and technology

PROJECT LEARNING TREE

GRADE ONE MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
76	1.1.A (p.A-5) Compare and order whole numbers up to 99 (less than, greater than, or equal to) using sets of concrete objects and pictorial models
2, 3, 6, 64	1.6.A (p.A-6) Describe and identify objects in order to sort them according to a given attribute using informal language
1	1.6.B (p.A-6) Identify circles, triangles, and rectangles, including squares
27, 41, 51, 67, 77, 79	1.7.A (p.A-6) Estimate and measure length, capacity, and weight of objects using nonstandard units
21	1.7.B (p.A-6) Describe the relationship between the size of the unit and the number of units needed in measurement
95	1.8 (p.A-6) Understand that time and temperature can be measured
12, 32, 43, 74	1.9.A (p.A-6) Collect and sort data
22, 36, 46	1.9.B (p.A-6) Use organized data to construct real object graphs, picture graphs, and bar-type graphs
16, 48	1.10.A (p.A-7) Draw conclusions and answer questions using information organized in real-object graphs, picture graphs, and bar-type graphs
20	1.11.A (p.A-7) Identify mathematics in everyday situations
4, 30, 31, 47	1.11.B (p.A-7) Use a problem-solving model, with guidance as needed, that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
37, 54	1.11.D (p.A-7) Use tools such as real objects, manipulatives, and technology to solve problems
24, 61, 63, 78	1.12.A (p.A-7) Explain and record observations using objects, words, pictures, numbers, and technology
18, 49, 62, 65, 81, 87	1.13 (p.A-7) Reason and support his or her thinking using objects, words, pictures, numbers, and technology
25	1.4.A (p.A-5) Identify, describe, and extend pictorial patterns in order to make predictions and solve problems

PROJECT LEARNING TREE

GRADE TWO MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
76	2.1 (p.A-8) Use concrete models to represent, compare, and order whole number (through 999), read the numbers, and record the comparisons using numbers and symbols(>,<=)
25	2.6.B (p.A-9) Identify patterns in a list of related number pairs based on a real-life situation and extend the list
2, 3	2.6.C(p.A-9) Identify, describe, and extend patterns to make predictions and to solve problems
1, 64	2.7.A (p.A-9) Identify attributes of any shape or solid
6	2.7.B(p.A-9) Use attributes to describe how two shapes or solids are alike or different
95	2.9 (p.A-10) Use standard tools to measure time and temperature
67	2.9.A (p.A-10) Identify concrete models that approximate standard units of length, capacity, and weight
21, 27, 41, 51, 77, 79	2.9.B (p.A-10) Measure length, capacity, and weight using concrete models that approximate standard units
16, 22 36, 46	2.11.A (p.A-10) Construct picture graphs and bar-type graphs
48	2.11.B (p.A-10) Draw conclusions and answer questions based on picture graphs and bar-type graphs
20	2.12.A (p.A-10) Identify mathematics in everyday situations
30, 31, 47	2.12.B (p.A-10) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
4	2.12.C(p.A-10) 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
37, 54, 78	2.12.D (p.A-10) Use tools such as real objects, manipulatives, and technology to solve problems
12, 32, 42, 43, 61, 63, 68, 74	2.13.A (p.A-11) Explain and record observations using objects, words, pictures, numbers, and technology
8, 18, 24, 49, 62, 65, 81, 87, 89	2.14 (p.A-11) Reason and support his or her thinking using objects, words, pictures, numbers, and technology

PROJECT LEARNING TREE

GRADE THREE MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
5, 25	3.7.B (p.A-13) Identify patterns in a table of related number pairs based on a real-life situation and extend the table
1	3.9.A (p.A-13) Identify congruent shapes
21, 24, 27, 41, 67, 77, 79, 80	3.11.A (p.A-13) Estimate and measure lengths using standard units such as inch, foot, yard, centimeter, decimeter, and meter
28	3.11.B (p.A-13) Use linear measure to find perimeter of a shape
95	3.12 (p.A-13) Measure time and temperature
51	3.13 (p.A-13) Apply measurement concepts
7, 16, 22, 36, 46, 81	3.14.A (p.A-14) Collect, organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data
48	3.14.B (p.A-14) Interpret information from pictographs and bar graphs
20, 34	3.15.A (p.A-14) Identify mathematics in everyday situations
4, 30, 31, 47	3.15.B (p.A-14) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
37, 54, 78	3.15.D (p.A-14) Use tools such as real objects, manipulatives, and technology to solve problems
2, 3, 12, 32, 40, 42, 43, 58, 61, 63, 64, 68, 74, 76,	3.16.A (p.A-14) Explain and record observations using objects, words, pictures, numbers, and technology
62, 65	3.17 (p.A-14) Use logical reasoning to make sense of his or her world
6	3.17.A(p.A-14) Make generalizations from patterns or sets of examples and nonexamples
8, 18, 49, 59, 87, 89	3.17.B (p.A-14) Justify why an answer is reasonable and explain the solution process

PROJECT LEARNING TREE

GRADE FOUR MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
14	4.2.C (p.A-15) Compare and order fractions using concrete and pictorial models
31	4.4.D (p.A-16) Use multiplication to solve problems involving two-digit numbers
25	4.7 (p.A-16) Describe the relationship between two sets of related data such as ordered pairs in a table
38, 51	4.11.B (p.A-17) Estimate and measure capacity using standard units including milliliters, liters, cups, pints, quarts, and gallons
11, 21, 24, 27, 28, 41, 48, 66, 67, 75, 77, 79, 80, 95	4.12 (p.A-17) Measure to solve problems involving length, including perimeter, time, temperature, and area
82, 88	4.13 (p.A-17) Solve problems by collecting, organizing, displaying and interpreting sets of data
22, 46, 81	4.13.C (p.A-17) Interpret bar graphs
5, 20, 34, 49, 53, 90	4.14.A (p.A-18) Identify mathematics in everyday situations
4, 30, 44, 47, 69, 83	4.14.B (p.A-18) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
10	4.14.C (p.A-18) Select or develop an appropriate problem-solving 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
13, 15, 37, 54	4.14.D (p.A-18) Use tools such as real objects, manipulatives, and technology to solve problems
2, 3, 7, 9, 12, 23, 32, 36, 40, 42, 43, 45, 58, 61, 64, 68, 76, 78, 91, 93	4.15.A (p.A-18) Explain and record observations using objects, words, pictures, numbers, and technology
62, 65	4.16 (p.A-18) Use logical reasoning to make sense of his or her world
8, 18, 59, 87, 89	4.16.B (p.A-18) Justify why an answer is reasonable and explain the solution process

PROJECT LEARNING TREE

GRADE FIVE MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
14	5.2.B (p.A-19) Compare two fractional quantities in problem-solving situations using a variety of methods, including common denominators
73, 85	5.3 (p.A-19) Add, subtract, multiply, and divide to solve meaningful problems
31	5.3.B (p.A-19) Use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology)
25	5.6 (p. A-20) Select from and use diagrams and number sentences to represent real-life situations
11, 21, 24, 27, 28, 38, 41, 48, 51, 66, 67, 70, 75, 77, 79, 80	5.11.A (p.A-21) Measure to solve problems involving length (including perimeter), weight, capacity, time, temperature, and area
16, 22, 36, 46, 81, 82, 88, 95	5.13 (p.A-21) Solve problems by collecting, organizing, and displaying, and interpreting sets of data
5, 17, 20, 34, 90,	5.14.A (p.A-22) Identify the mathematics in everyday situations
4, 30, 44, 47, 52,56, 60, 69, 83, 96	5.14.B (p.A-22) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
10. 53	5.14.C (p.a-22) Select or develop an appropriate problem-solving 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
37, 54, 84	5.14.D (p.A-22) Use tools such as real objects, manipulatives, and technology to solve problems
2, 3, 7, 9, 12, 23, 32, 40, 42, 43, 45, 49, 57, 58, 61, 63, 64, 68, 76, 78, 91, 92, 93,	5.15.A (p.A-22) Explain and record observations using objects, words, pictures, numbers, and technology
8	5.15.B(p.A-22) Justify why an answer is reasonable and explain the solution process
13, 15	5.15.D (p.A-22) Use tools such as real objects, manipulatives, and technology to solve problems

PROJECT LEARNING TREE

GRADE FIVE MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
65, 86	5.16 (p.A-22) Use logical reasoning to make sense of his or her world
18, 26, 59, 89	5.16.B (p.A-22) Justify why an answer is reasonable and explain the solution process

PROJECT LEARNING TREE

GRADE SIX MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
73, 85	6.2 (p.B-2) Add, subtract, multiply, and divide to solve meaningful problems
14	6.2.A (p.B-2) Model addition and subtraction situations involving fractions with objects, pictures, words, and numbers
31	6.2.C (p.B-2) Use multiplication and division of whole numbers to solve problems including situations involving equivalent ratios and rates
19	6.4.A (p.B-2) Use tables and symbols to represent and describe proportional and other relationships involving conversions, sequences, perimeter, area, etc.
11, 21, 27, 28, 29, 38, 41, 48, 51, 66, 67, 70, 75, 77, 79, 80	6.8.B (p.B-3) Select and use appropriate units, tools, or formulas to measure and to solve problems involving length (including perimeter and circumference), area, time, temperature, capacity, and weight
24	6.8.D (p.B-3) Convert measures within the same measurement system (customary/metric) based on relationships between units.
25	6.9.B (p.B-3) Find the probabilities of a simple event and its complement and describe the relationship between the two
16	6.10.A (p.B-3) Draw and compare different graphical representations of the same data
81	6.10.C (p.B-3) Sketch circle graphs to display data
3, 7, 9, 12, 22, 23, 32, 35, 36, 39, 40, 55, 57, 58, 59, 61, 68, 76, 82, 88, 95	6.10.D (p.B-3) Solve problems by collecting, organizing, displaying, and interpreting data
5, 17, 18, 26, 34,49, 64, 90,	6.11.A (p.B-4) Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics
4, 20, 30, 33, 42, 44, 47, 52, 56, 60, 69, 72, 83, 94, 96	6.11.B (p.B-4) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

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6.11.C (p.B-4)

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

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GRADE SIX MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

Lesson	Correlation/TEKS Mathematics
2, 13, 15, 37, 54, 78, 84, 92	6.11.D (p.B-4) Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems
45, 63, 91, 93	6.12.B (p.B-4) Evaluate the effectiveness of different representations to communicate ideas
65, 86, 89	6.13 (p.B-4) Use logical reasoning to make conjectures and verify conclusions
43	6.13.A (p.B-4) Make conjectures from patterns or sets of examples and nonexamples

PROJECT LEARNING TREE

GRADE SEVEN MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

14	7.2.B (p.B-5) Use addition, subtraction, multiplication, and division to solve problems involving fractions and decimals
31	7.2.C (p.B-6) Use models to add, subtract, multiply, and divide integers and connect the actions to algorithms
50,73, 85	7.2.F (p.B-6) Select and use appropriate operations to solve problems and justify selection
19	7.4.C (p.B-6) Describe the relationship between the terms in a sequence and their positions in the sequence
11, 21, 27, 38, 41, 51, 67, 70, 75, 77 80	7.9 (p.B-7) Estimate measurements and solve application problems involving length (including perimeter and circumference), area, and volume
16, 22, 32, 39, 45, 48, 57, 58, 68, 71, 81, 82, 88, 95	7.11.A (p.B-8) Select and use an appropriate representation for presenting collected data and justify the selection
23, 29, 35, 43, 59, 76	7.11.B (p.B-8) Make inferences and convincing arguments based on an analysis of given or collected data
5, 17, 20, 26, 40, 49, 64, 90	7.13.A(p.B-8) Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics
4, 33, 42, 44, 47, 52, 55, 56, 60, 72, 83, 94	7.13.B (p.B-8) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
10, 53	7.13.C (p.B-8) Select or develop an appropriate problem-solving 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
15, 54, 84	7.13.D (p.B-8) Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems
91, 92, 93	7.14.B (p.B-9) Evaluate the effectiveness of different representations to communicate ideas
86, 89	7.15 (p.B-9) Use logical reasoning to make conjecture and verify conclusions

PROJECT LEARNING TREE

GRADE EIGHT MATHEMATICS: Correlation to the Texas Essential Knowledge and Skills

14, 31, 50, 73, 85	8.2.A (p.B-10) Select and use appropriate operations to solve problems and justify the selections
67, 80	8.8.C (p.B-11) Estimate answers and use formulas to solve application problems involving surface area and volume
21, 27	8.9.B (p.B-11) Use proportional relationships in similar shapes to find missing measurements
16, 22, 41, 76, 81, 82, 88, 95	8.12.C (p.B-12) Construct circle graphs, bar graphs, and histograms, with or without technology
23, 29, 43	8.13.A (p.B-12) Evaluate methods of sampling to determine validity of an inference made from a set of data
5, 17, 20, 26, 32, 40, 49, 64, 68, 75, 90	8.14.A (p.B-12) Identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics
4, 11, 33, 42, 44, 47, 52, 56, 60, 69, 72, 77, 83, 94, 96	8.14.B (p.B-12) Use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness
10, 53	8.14.C (p.B-13) Select or develop an appropriate problem-solving 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
15, 54, 84	8.14.D (p.B-13) Select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems
45, 57, 59, 91, 92, 93	8.15.B (p.B-13) Evaluate the effectiveness of different representations to communicate ideas
86, 89	8.16 (p.B-13) Use logical reasoning to make conjectures and verify conclusions