| | Grade | 6 PLT Co | rrelations to | | PreK | Gr 5- | | PreK | - | 14.0 | K O | | 0.00 | 0.4.0 | 0.00 | Duel(0 | 0-50 | | | | | | 14.0 | | | | K O | | | | | |
|---------|---|--------------------|---|--|---------------|-----------------|----------------------------|--------------|-------------------|------|-------------------------|------------|---------|--------------------------|-----------------------|------------------|---------------------------|----------------------|-----------------|----------------------------|------------------------------|-------------|---------------|-----------------------|--------------------------|-------------------------|--------------|----------------|------------------|--|-----------------------|------------------------|
| | Minnesota | a Academ | ic Standards in | Project Learning Tree Activity | / | 0 | gr ĸ-c | 0 | Piek-8 | r0 | r0 | gr 3-6 | GI 6-8 | Gr 1-8 | GI 6-8 | Plek-6 | GI 5-8 | gi 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | N-0 | gi 4-6 | gr 4-8 | gr 4-8 | N-0 | gr 4-8 | gr 1-8 | gr 3-8 | gr 6-8 | gr 5-8 |
| | _ | Mathem | atics | Number: | : 4 | 12 | 2 16 | 5 21 | 22 | 2 | 5 27 | 28 | 29 | 32 | 35 | 5 36 | 37 | 38 | 41 | 47 | 48 | 53 | 65 | 66 | 67 | 69 | 70 | 73 | 77 | 80 | 84 | 85 |
| | • | T | • | page number (2006 edition) | 26 | 59 | 77 | 97 | 7 102 | 11 | 1 117 | 120 | 123 | 135 | 147 | 153 | 159 | 163 | 179 | 200 | 203 | 232 | 277 | 279 | 284 | 291 | 297 | 314 | 332 | 345 | 363 | 370 |
| | strand | Sub- strand | Standard | benchmark | Sounds Around | nvasive Species | Pass the Plants, Please | Adopt a Tree | Trees as Habitats | | Every Tree for tself | Air Plants | Reasons | A Forest of Many Jses | _oving it Too Much | Pollution Search | Reduce, Reuse, Recycle | Every Drop Counts | How Plants Grow | Are Vacant Lots Vacant? | Field, Forest, and Stream | On the Move | Bursting Buds | Germinating Giants | How Big is Your Tree? | Forest for the Trees | Soil Stories | Waste Watchers | Trees in Trouble | Nothing Succeeds Like Succession | The Global Climate | n The Driver's Seat |
| Grade 6 | I. Mathematical Reasoning | | Apply skills of mathematical representation, communication and reasoning throughout the remaining four content strands. | Assess the reasonableness of a solution by comparing the solution to appropriate graphical or numerical estimates or by recognizing the feasibility of a solution in a given context. Appropriately use examples and counterexamples to make and test conjectures, justify solutions and explain results. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Translate a problem described verbally or by tables, diagrams or graphs, into suitable mathematical language, solve the problem mathematically and interpret the result in the original context. Support mathematical results by explaining why the steps in a solution are valid and why a | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | | | | particular solution method is appropriate. 5. Determine whether or not relevant information is missing from a problem. 6. Use accurately common logical words and phrases such as "and," "or," "if then," "unique," "only if." | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade 6 | II. Number Sense, Compulation, & Reasoning | A. Number Sense | Use positive and negative rational numbers, represented in a variety of ways, | 1. Order and compare integers, fractions, decimals and mixed numbers with >, <, and =. Locate and compare positive and negative rational numbers on a number line. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | to quantify information and to solve real-world and mathematical problems. | 2. Use rounding and estimation with integers, decimals and fractions to solve real-world and mathematical problems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | | B. Computatio | Compute fluently and make reasonable | 1. Determine the prime factorization of positive integers. | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | n and Operation | estimates with positive and negative rational numbers in | 2. Determine the least common multiple and the greatest common divisor of whole numbers. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Crede | | moletiene te | | Prek | r 5 | - | Prek | (- | | | | | | | | | | | | | | | | | | | | | | | 1 | Γ |
|---------|----------------|--|---|---------------|-----------------|---|--------------|-------|-------|-----------------------------------|----------|------------|---------|--------------------------|-----------------------|------------------|---------------------------|----------------------|-----------------|----------------------------|---------------------------|--------|---------------|--------------------------------------|--------------------------|-------------------------------------|--------------|----------------|------------------|--|-----------------------|------------------------|
| Grade | 6 PLI CO | rrelations to | Math correlation grade | 8 | 8 | gr K-8 | 8 | PreK- | 8 K-6 | K-8 | gr 3 | 3-6 | Gr 6-8 | Gr 1-8 | Gr 6-8 | PreK-6 | Gr 5-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | 8 K-6 | gr 4-6 | gr 4-8 | gr 4-8 | K-8 | gr 4-8 | gr 1-8 | gr 3-8 | gr 6-8 | gr 5-8 |
| Minneso | a Academ | ic Standards in | Project Learning Tree Activity | | | | | | | | _ | 20 | 20 | 22 | 25 | 20 | 27 | 20 | | 47 | | | | | 07 | 0 | 70 | 70 | | 00 | | 0.0 |
| _ | Mathem | atics | Number | : 4 | 14 | 2 10 | | | 2 2 | 25 2 | <u> </u> | 20 | 29 | 32 | 30 | 30 | 37 | 30 | 41 | 4/ | 40 | 0 0. | 5 03 | 00 00 | 01 | 09 | 70 | 13 | 11 | 00 | 04 | 00 |
| | - | | page number (2006 edition) | 26 | 5 5 | 9 77 | 7 97 | 7 10 | 2 11 | 11 11 | 7 1 | 20 | 123 | 135 | 147 | 153 | 159 | 163 | 179 | 200 | 203 | 3 23 | 2 277 | 7 279 | 284 | 291 | 297 | 314 | 332 | 345 | 363 | 370 |
| strand | Sub- strand | Standard | benchmark | Sounds Around | nuseina Chariae | Trasive opecies Pass the Plants, Please | Adopt a Tree | | | Birds and Worms Every Tree for | tself | Air Plants | Reasons | A Forest of Many Jses | _oving it Too Much | Pollution Search | Reduce, Reuse, Recycle | Every Drop Counts | How Plants Grow | Are Vacant Lots Vacant? | Field, Forest, and Stream | | CII IIIE MOVE | Germinating Germinating Giants | How Big is Your Tree? | ⁻ orest for the Trees | Soil Stories | Waste Watchers | Trees in Trouble | Vothing Succeeds Like Succession | The Global Climate | n The Driver's Seat |
| | | real-world and mathematical problems. Understand the meanings of arithmetic operations | 3. Use addition, subtraction, multiplication and division of multi-digit whole and decimal numbers to solve multi-step real-world and mathematical problems. | | 0 | , | | | | | | | | | | | | x | | | | | | 0 | 0 | | | x | | | x | x |
| | | and factorization, and how they relate to one another. Appropriately use | 4. Multiply and divide, without a calculator, numbers containing up to three digits by numbers containing up to two digits, such as 347 / 83 or 4.91 x 9.2. | | | | | | | | | | | | | | | | | | | 0 | | 0 | 0 | | | | | | | x |
| | | calculators and other technologies to solve problems. | 5. Find quotients with remainders and be able to express the remainder in various ways depending on the context of the problem. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 6. Use the relationship between moving the decimal point and the operations of multiplication or division by powers of 10 to simplify calculations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 7. Add, subtract, multiply and divide common fractions and mixed numbers as well as fractions where the common denominator equals one of the denominators. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8. Find, represent and use percentages in real- world and mathematical problems, including percentages greater than 100% and less than 1%. | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | x | |
| | | | Apply the correct order of operations and grouping symbols when using calculators and other technologies. | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | |
| | | | 10. Know, use and translate calculator notational conventions to mathematical notation. | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | |
| | | | 11. Understand that use of a calculator requires appropriate mathematical reasoning and does not replace the need for mental computation. | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | |

| | Grade | 6 PLT Co | rrelations to | Math correlation grade | PreK- 8 | gr 5- 8 | gr K-8 | PreK 8 | - PreK-8 | K-6 | K-8 | gr 3-6 | 6 Gr 6 | -8 Gr 1-8 | Gr 6-8 | PreK-6 | Gr 5-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | K-6 | gr 4-6 | gr 4-8 | gr 4-8 | K-8 | gr 4-8 | gr 1-8 | gr 3-8 | gr 6-8 | gr 5-8 |
|---------|---|---------------------------------------|---|--|---------------|-----------------|----------------------------|--------------|-------------------|-----|-----------------------------------|--------|------------|--|---------------|------------------|---------------------------|----------------------|-----------------|----------------------------|------------------------------|-------------|---------------|-----------------------|--------------------------|-------------------------|--------------|----------------|------------------|--|-----------------------|------------------------|
| | Minnesota | a Academ Mathem | ic Standards in atics | Project Learning Tree Activity Number: | 4 | 12 | 16 | 21 | 22 | 2 | 5 27 | 7 28 | 8 2 | 9 32 | 2 35 | 5 36 | 37 | 38 | 41 | 47 | 48 | 3 53 | 65 | 66 | 67 | 69 | 70 | 73 | 77 | 80 | 84 | 85 |
| | | Mathema | | page number (2006 edition) | 26 | 59 | 77 | 97 | 7 102 | 11 | 1 11 | 7 12 | 0 12 | 3 135 | 5 147 | 7 153 | 159 | 163 | 179 | 200 | 203 | 3 232 | 277 | 279 | 284 | 291 | 297 | 314 | 332 | 345 | 363 | 370 |
| | strand | Sub- strand | Standard | benchmark | Sounds Around | nvasive Species | Pass the Plants, Please | Adopt a Tree | Trees as Habitats | | Birds and Worms Every Tree for | | Air Plants | Kain Reasons A Forest of Many Jses | _oving it Too | Pollution Search | Reduce, Reuse, Recycle | Every Drop Counts | How Plants Grow | Are Vacant Lots Vacant? | Field, Forest, and Stream | On the Move | Bursting Buds | Germinating Giants | How Big is Your Tree? | Forest for the Trees | Soil Stories | Waste Watchers | Trees in Trouble | Vothing Succeeds Like Succession | The Global Climate | n The Driver's Seat |
| Grade 6 | III. Patterns, Functions, & Algebra | A. Patterns and Functions | Demonstrate understanding of the rectangular coordinate system. | 1. Demonstrate understanding of the four quadrants in a rectangular coordinate system by writing and plotting ordered pairs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B. Algebra (Algebraic Thinking) | Apply arithmetic operations in the correct order to simplify and evaluate numeric expressions in real-world and mathematical problems. | 1. Apply the correct order of operations including addition, subtraction, multiplication, division and grouping symbols to simplify and evaluate numeric expressions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade 6 | IV. Data Analysis, Statistics, & | A. Data and Statistics | Represent data and use various measures associated with data | 1. Collect, organize and represent categorical and numerical data with tables and bar graphs. | х | x | x | | 0 | 0 | 0 | | | | | 0 | | | х | | 0 | | | | 0 | | x | 0 | | 0 | x | 0 |
| | Probability | | to draw conclusions and identify trends. | 2. Understand the differences and appropriate use of mean, median and mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 3. Find the median and possible outliers. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | B. Probability | Calculate and express probabilities | 1. Generate and display data in graphs and tables to estimate experimental probabilities. | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | | | numerically, and apply probability concepts to solve real- world and mathematical problems. | 2. Represent all possible outcomes for a probability problem with tables, grids and tree diagrams to calculate probabilities and draw conclusions from the results. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grade 6 | V. Spatial Sense, Geometry, & | A. Spatial Sense | Recognize the relationship between different | 1. Create models of three-dimensional geometric shapes from two-dimensional representations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Measurement | | representations of two and three-dimensional shapes. Understand the effect of various | Predict the position and orientation of simple geometric shapes under transformations such as reflections, rotations and translations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | transformations. | 3. Identify symmetries in three-dimensional shapes. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Grade | 6 PLT Co | rrelations to | Math correlation grade | PreK 8 | gr 5- 8 | gr K-8 | PreK 3 8 | - PreK-8 | 8 K-6 | K-8 | gr 3-6 | Gr 6-8 | Gr 1-8 | Gr 6-8 | PreK-6 | Gr 5-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | gr 4-8 | K-6 | gr 4-6 | 6 gr 4-8 | gr 4-8 | K-8 | gr 4-8 | gr 1-8 | gr 3-8 | gr 6-8 | gr 5-8 |
|-----------|-----------------------|---|---|---------------|-----------------|------------------|--------------|-------------------|-----------------|-------------------------|------------|--------------|--------------------------|-----------------------|------------------|---------------------------|----------------------|-----------------|----------------------------|--|-------------|---------------|------------------------------|-----------------------------------|-------------------------|--------------|----------------|------------------|--|-----------------------|------------------------|
| Minnesota | Academ | ic Standards in atics | Project Learning Tree Activity Number: | 4 | 12 | 2 16 | 6 21 | 22 | 25 | 27 | 28 | 29 | 32 | 35 | 36 | 37 | 38 | 41 | 47 | 48 | 53 | 6 | 5 6 | 6 67 | 69 | 70 | 73 | 77 | 80 | 84 | 85 |
| | matrion | | page number (2006 edition) | 26 | 59 | 77 | 7 97 | / 102 | 111 | 117 | 120 | 123 | 135 | 147 | 153 | 159 | 163 | 179 | 200 | 203 | 232 | 2 27 | 7 27 | 9 284 | 1 291 | 297 | 314 | 332 | 345 | 363 | 370 |
| strand | Sub- strand | Standard | benchmark | Sounds Around | nvasive Species | Pass the Plants, | Adopt a Tree | Trees as Habitats | Birds and Worms | Every Tree for tself | Air Plants | Rain Reasons | A Forest of Many Uses | _oving it Too Much | Pollution Search | Reduce, Reuse, Recycle | Every Drop Counts | How Plants Grow | Are Vacant Lots Vacant? | ⁻ ield, Forest, and Stream | On the Move | Bureting Bude | Sursting Buds Germinating | Jants How Big is Your Tree? | Forest for the Trees | Soil Stories | Waste Watchers | Trees in Trouble | Vothing Succeeds Like Succession | The Global Climate | n The Driver's Seat |
| | B. Geometry | Identify a variety of simple geometric figures by name, calculate various quantities associated | 1. Use facts about angles including the relationship between complementary angles, supplementary angles and the angles within triangles to solve real-world and mathematical problems | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | with them and use appropriate tools to draw them | 2. Classify triangles as equilateral, isosceles or scalene, and right, acute or obtuse. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | uraw tielii. | 3. Find the area and circumference of a circle given the radius or diameter using common approximations of pi where appropriate. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4. Measure, identify, and draw perpendicular and parallel lines, angles and rectangles by using appropriate tools such as straightedge, ruler, compass, protractor or software. | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | |
| | C. Measureme nt | Make calculations of time, length, area and volume within | Solve problems requiring conversion of units within the U.S. customary system, and within the metric system. | | | | | | | | | | | | | | | | | | | | | x | | | | | | | |
| | | standard measuring systems, using good judgment in choice of | 2. Express measures of time and distance as fractions, mixed numbers and decimals to solve real-world and mathematical problems. | | | | | | | | | | | | | | | | | | | | | x | | | | | | 0 | |
| | | units. | 3. Find the area and perimeter of rectangles, squares, triangles and parallelograms by measuring, using a grid or using a formula. | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | |

| Grade Minnesota | 6 PLT Co a Academ Mathem | prrelations to nic Standards in atics | Math correlation grade Project Learning Tree Activity Number: | PreK- 8 4 | gr 5- 8 12 | gr K-8 | PreK 8 21 | PreK-8 | к-6 25 | к-в 27 | gr 3-6 28 | Gr 6-8 29 | Gr 1-8 | Gr 6-8 35 | PreK-6 36 | Gr 5-8 37 | gr 4-8 38 | gr 4-8 41 | gr 4-8 47 | gr 4-8 48 | gr 4-8 53 | к-6 65 | gr 4-6 66 | gr 4-8 67 | gr 4-8 69 | к-8 70 | gr 4-8 73 | gr 1-8 77 | gr 3-8 80 | gr 6-8 84 | gr 5-8 85 |
|--------------------|--------------------------------|---|---|------------------------|-------------------------|----------------------------|-----------------|-------------------|------------------|-------------------------|---------------------|---------------------|--------------------------|-----------------------|---------------------|---------------------------|----------------------|---------------------|----------------------------|--|---------------------|------------------|-----------------------|--------------------------|-------------------------------------|------------------|---------------------|---------------------|--|-----------------------|------------------------|
| | | | page number (2006 edition) | 26 | 59 | 77 | 97 | 102 | 111 | 117 | 120 | 123 | 135 | 147 | 153 | 159 | 163 | 179 | 200 | 203 | 232 | 277 | 279 | 284 | 291 | 297 | 314 | 332 | 345 | 363 | 370 |
| strand | Sub- strand | Standard | benchmark | Sounds Around | nvasive Species | Pass the Plants, Please | Adopt a Tree | Trees as Habitats | Birds and Worms | Every Tree for tself | Air Plants | Rain Reasons | A Forest of Many Jses | _oving it Too Much | Pollution Search | Reduce, Reuse, Recycle | Every Drop Counts | How Plants Grow | Are Vacant Lots Vacant? | ⁻ ield, Forest, and Stream | On the Move | Bursting Buds | Germinating Giants | How Big is Your Tree? | ⁻ orest for the Trees | Soil Stories | Waste Watchers | Trees in Trouble | Vothing Succeeds Like Succession | The Global Climate | n The Driver's Seat |

The Project Learning Tree PreK-8 Activity Guide is written from a comprehensive environmental systems-based perspective and is multidisciplinary and cross-curricular in nature. Many lessons cover a wide spectrum of topics.

This correlations system represents PLT's interpretation of the Minnesota Academic Standards and their relation to the PLT PreK-8 Activity Guide (2006 revision). The activities are correlated to the Minnesota Academic Standards to illustrate the level to which the lessons address the learning benchmarks within the standards. No activities are designed to specifically meet the U.S. National Education Standards or the Minnesota Academic Standards. Individual educators are responsible for addressing specific requirements outlined within the Minnesota Academic Standards. Although each PLT activity provides assessment suggestions, individual educators are responsible for assessing student work. We strongly encourage all educators to modify lessons from the PLT Guide as they best see fit.

The grid below suggests correlations between each PLT activity and the MN Academic Benchmarks it addresses. An "x" means that the activity partially or fully addresses the concepts and language used in the Benchmark. An "o" means that the activity introduces the concepts and language used in the Benchmark.

We welcome your comments and suggestions regarding the accuracy and usefulness of this system. We sincerely hope you will find these correlations useful as you integrate PLT activities into your curriculum.