Grade 2 PLT Correlations to Minnesota Academic Standards in Mathematics

				Math correlation grade	PreK-	Pre K-8	PreK 5	gr K-8	PreK-8	PreK-8	K-6	K-8	Gr 1-8	PreK-6	K-6	K-8	gr 1-8
				Project Learning Tree Activity Number:	**1**	**4**	**6**	**16**	**21**	**22**	**25**	**27**	**32**	**36**	**65**	**70**	**77**
				page number (2006 ediction)	17	26	34	77	97	102	111	117	135	153	277	297	332
	strand	**Sub-strand**	**Standard**	**benchmark**	The Shape of Things	Sounds Around	Picture This	Pass the Plants, Please	Adopt a Tree	Trees as Habitats	Birds and Worms	Every Tree for Itself	A Forest of Many Uses	Pollution Search	Bursting Buds	Soil Stories	Trees in Trouble
Grade 2	I. Mathematical Reasoning		Apply skills of mathematical representation, communication and reasoning throughout the remaining four content strands.	1. Create and solve word problems using actions, objects, words, pictures or numbers.													
				2. Estimate and check that answers are reasonable.													
				3. Explain to others how a problem was solved.													
Grade 2	II. Number Sense, Compulation, & Reasoning	A. Number Sense	Understand place value, ways of representing whole numbers and relationships among whole numbers. Understand the concept of unit fractions.	1. Read, write with numerals, compare and order numbers to 999.													
				2. Count by 2s, 5s, 10s from any given whole number.													
				3. Understand and demonstrate the significance of groups of 10 in the base 10 number system.													
				4. Represent numbers in equivalent ways.													
				5. Recognize, name, compare and represent unit fractions with drawings or concrete materials.													
		B. Computation and Operation	Compute fluently and make reasonable estimates with whole numbers in real-world and mathematical problems.	1. Use one- and two-digit addition and subtraction to solve real-world and mathematical problems.													
				2. Demonstrate understanding of the relationships between odd and even numbers in addition and subtraction such as, odd + odd = even or odd - even = odd.													
				3. Understand the concept of multiplication as repeated addition or in rectangular arrays.													
				4. Understand the concept of division as repeated subtraction or sharing equally.													
Grade 2	III. Patterns, Functions, & Algebra	A. Patterns and Functions	Understand repeating, growing and shrinking patterns.	1. Recognize, create and extend repeating, growing and shrinking patterns using numbers, concrete objects and pictures.													
		B. Algebra (Algebraic Thinking)	Understand basic properties of addition and subtraction.	1. Describe what happens when zero is added to a number or subtracted from a number.													
				2. Generate equivalent expressions for a given number such as 24 = 17 + 7 or 24 = 100 - 76.													

X = Significant correlation
0 = Some correlation

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				3. Determine the truth-value of an equation such as: true or false? 7 = 5 + 1.													
				4. Understand that adding two numbers in any order results in the same sum.													
				5. Understand that grouping numbers in multiple addend problems, in any order, results in the same sum.													
Grade 2	IV. Data Analysis, Statistics, & Probability	A. Data and Statistics	Collect and represent data in real-world and mathematical problems.	1. Collect and record categorical data.							**0**	**X**					
				2. Create pictographs and real-object graphs to represent data.			**0**				**X**						
				3. Identify patterns in graphs or data sets.			**0**				**X**	**0**					
		B. Probability	(Standards under this heading may be locally determined.)														
Grade 2	V. Spatial Sense, Geometry, & Measurement	A. Spatial Sense	Understand the concept of symmetry and apply to simple drawings.	1. Create symmetrical patterns and designs.													
		B. Geometry	Use attributes of two- and three-dimensional shapes to identify them and distinguish between them.	1. Investigate and predict the results of putting together and taking apart two- and three-dimensional shapes.													
				2. Sort, classify, compare and describe two- and three-dimensional objects according to their geometrical attributes.	**X**												
		C. Measurement	Measure length, time, temperature and money using appropriate tools and units to solve real-world and mathematical problems.	1. Estimate standard and nonstandard linear measurements, then measure to check answer.													
				2. Tell time to the quarter hour, half hour and hour using analog and digital clocks, distinguishing between a.m. and p.m.													
				3. Know relationships among units of time such as minutes in an hour, days in a month and weeks in a year.													

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				4. Read and write amounts of money using $ for dollar, ¢ for cents, and proper placement of the decimal point with amounts of money.													
				5. Combine coins to create amounts up to one dollar.													

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.