Wyoming Project Learning Tree
Correlation Key for Grades K-4
Wyoming Math Content and Performance Standards

Introduction: The purpose of this document is to provide Wyoming educators who use the *Project Learning Tree Pre-K - 8 Environmental Educational Activity Guide* (2006 edition) with a reference guide in how PLT's activities correlate to the Wyoming Math Content and Performance Standards for grades K-4. Educators may use PLT activities to teach or assess mastery of math skills in number operations and concepts, geometry, measurement, algebra, data analysis and probability, and integration of those areas.

Key to symbols and abbreviations:

*****	**Concept is a main focus of the activity or teaches to the standard.**
o	**Concept is part of the focus of the activity and supports the standard.**
n/c	**No correlation**
MA	**Math**

MATH, Grades K-4

MA 1. NUMBER OPERATIONS AND CONCEPTS:
Students use numbers, number sense, and number relationships in a problem-solving situation.

MA 4.1.1: **Students use the concept of place value to read and write whole numbers up to 999,999 in words, standard, and expanded form.**

MA 4.1.2: **Students compare and order whole numbers.**

MA 4.1.3: **Students use coins and bills to compare the values, make combinations up to $10.00, and make change…up to $5.00.**

n/c

MA 4.1.4: **Students demonstrate computational fluency with basic facts….**

28	Air Plants	o	3-6
66	Germinating Giants	o	4-6
73	Waste Watchers	o	4-8

MA 4.1.5: Students add and subtract to thousands and multiply hundreds by a single digit.

66	Germinating Giants	o	4-6

MA 4.1.6: Students explain their choice of problem solving strategies and justify their results…in problem solving situations.

73	Waste Watchers	o	4-8

MA 4.1.7: Students recognize commonly used fractions (halves, thirds, fourths) as parts of a whole using an area model.

n/c

MA 4.1.8: Students use estimation strategies to solve problems.

38	Every Drop Counts	o	4-8
66	Germinating Giants	o	4-6
67	How Big is Your Tree	o	K-8
73	Waste Watchers	o	4-8

MA 2. GEOMETRY:
Students apply geometric concepts, properties, and relationships in a problem-solving situation.

MA 4.2.1: Students classify & describe 2- and 3- dimensional objects by their attributes (sides, edges, vertices, and faces).

1	Shape of Things	*	K-3

MA 4.2.2: Students understand the images resulting from reflections (flips).

n/c

MA 4.2.3 Students select, use, and communicate organizational methods in problem-solving situations appropriate to grade level.

n/c

MA 4.2.4: Students know characteristics of lines (parallel, perpendicular, and intersecting).

n/c

MA 3. MEASUREMENT:
Students use a variety of tools and techniques of measurement in a problem-solving situation.

MA 4.3.1: Students select and apply appropriate U.S. customary units... to the estimation and measurement of length in real-world problems….

28	Air Plants	o	3-6
66	Germinating Giants	o	4-6
67	How Big is Your Tree	o	K-8
77	Trees in Trouble	o	1-8
80	Nothing Succeeds Like Succession	o	3-6

MA 4.3.2: Students select and apply appropriate U.S. customary units…to the estimation and measurement of weight in real-world problems….

66	Germinating Giants	o	4-6

MA 4.3.3: Students select and apply appropriate U.S. customary units…to the estimation and measurement of capacity in real-world problems….

37	Reduce, Reuse, Recycle	o	1-6
38	Every Drop Counts	o	4-8

MA 4.3.4: Student demonstrate relationships, within the U.S. customary system, given an equivalence chart, in problem-solving situations.

67	How Big is Your Tree	o	K-8

MA 4.3.5: Students determine area and perimeter of rectangles and squares using models in problem-solving situations.

MA 4.3.6: Students use time, in problem-solving situations to: compare relationships among seconds, minutes, and hours; use elapsed time to the nearest minute.

n/c

MA 4. ALGEBRA:

Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.

MA 4.4.1: **Students recognize, describe, extend, create, and generalize patterns by using manipulatives, numbers, and graphic representations.**

MA 4.4.2: **Students apply knowledge of appropriate grade level patterns when solving problems.**

MA 4.4.3: **Students explain a rule given a pattern or sequence.**

n/c

MA 5. DATA ANALYSIS AND PROBABILITY:

Students use data analysis and probability to analyze given situations and the results of experiments.

MA 4.5.1: **Students collect, organize, and compare data in graphs, Venn diagrams, tables, and charts.**

9	Planet Diversity	*	4-6
16	Pass the Plants	o	K-8
25	Birds and Worms	*	K-6
36	Pollution Search	o	K-6
37	Reduce, Reuse, Recycle	o	1-6
38	Every Drop Counts	*	4-8
41	How Plants Grow	*	4-8
47	Are Vacant Lots Vacant?	*	K-8
48	Field Forest and Stream	*	1-8
66	Germinating Giants	o	4-6
67	How Big is Your Tree	o	K-8
73	Waste Watchers	o	4-8
77	Trees in Trouble	o	1-8
80	Nothing Succeeds Like Succession	o	3-6
81	Living with Fire	o	K-8

MA 4.5.2: **Students communicate conclusions about a set of data by interpreting information using graphs, Venn diagrams, tables, and charts.**

9	Planet Diversity	*	4-6
25	Birds and Worms	*	K-6
38	Every Drop Counts	*	4-8
41	How Plants Grow	*	4-8

MA 4.5.2: (continued)

47	Are Vacant Lots Vacant?	*	K-8
48	Field Forest and Stream	*	1-8
66	Germinating Giants	o	4-6
67	How Big is Your Tree	o	K-8
73	Waste Watchers	o	4-8
77	Trees in Trouble	o	1-8
80	Nothing Succeeds Like Succession	o	3-6
81	Living with Fire	o	K-8

MA 4.5.3: Students predict, perform, and record results of probability experiments.

25	Birds and Worms	o	K-6
38	Every Drop Counts	*	4-8
41	How Plants Grow	*	4-8
47	Are Vacant Lots Vacant?	*	K-8
73	Waste Watchers	o	4-8

MA 4.5.4: **Students predict all possible outcomes of a given situation or event.**

n/c

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