

KINDERGARTEN-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: ✓ + Check marks with a plus, mean the activity has a strong correlation to the standard	Common Core Mathematics Standards								
	Counting and Cardinality			Operations and Algebraic Thinking	Numbers and Operations in Base Ten	Measurement and Data		Geometry	
	1. Know number names and the count sequence	2. Count to tell the number of objects.	3. Compare numbers	1. Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	1. Work with numbers 11–19 to gain foundations for place value.	1. Describe and compare measurable attributes	2. Classify objects and count the number of objects in each category.	1. Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).	2. Analyze, compare, create, and compose shapes.
PLT PreK-8 EE Activity Guide									
1								✓ +	✓
6							✓		
25	✓	✓	✓		✓		✓ +		
27	✓	✓	✓	✓			✓		
41							✓ +		
46	✓	✓	✓				✓ +		
67							✓ +		

FIRST GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: ✓ + Check marks with a plus, mean the activity has a strong correlation to the standard	Common Core Mathematics Standards											
	Operations and Algebraic Thinking				Numbers and Operations in Base Ten			Measurement and Data			Geometry	
	1. Represent and solve problems involving addition and subtraction	2. Understand and apply properties of operations and the relationship between addition and subtraction	3. Add and subtract within 20	4. Work with addition and subtraction equations	1. Extend the counting sequence	2. Understand place value	3. Use place value understanding and properties of operations to add and subtract	1. Measure lengths indirectly and by iterating length units	2. Tell and write time	3. Represent and interpret data	1. Reason with shapes and their attributes	
PLT PreK-8 EE Activity Guide												
1											✓	
4								✓ +		✓ +		
6										✓		
25			✓		✓					✓		
27										✓		
41								✓		✓		
46										✓		
67								✓ +				

SECOND GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: ✓ + Check marks with a plus, mean the activity has a strong correlation to the standard	Common Core Mathematics Standards									
	Operations and Algebraic Thinking			Numbers and Operations in Base Ten		Measurement and Data				Geometry
	1. Represent and solve problems involving addition and subtraction	2. Add and subtract within 20	3. Work with equal groups of objects to gain foundations for multiplication	1. Understand place value	2. Use place value understanding properties of operation to add and subtract	1. Measure and estimate lengths in standard units	2. Relate addition and subtraction to length	3. Work with time and money	4. Represent and interpret data	1. Reason with shapes and their attributes
PLT PreK-8 Environmental Education Activity Guide										
1										✓
4						✓			✓	
25		✓ +							✓ +	
27									✓	
36									✓	
41						✓ +			✓ +	
46									✓	
67						✓				

THIRD GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: Enrichment Refers to the section of the activity that correlates with the Common Core	Common Core Mathematics Standards										
	Operations and Algebraic Thinking				Numbers and Operations in Base Ten	Numbers and Operations – Fractions	Measurements and Data				Geometry
	1. Represent and solve problems involving multiplication and division	2. Understand properties of multiplication and the relationship between multiplication and division	3. Multiply and divide within 100	4. Solve problems involving the four operations, and identify and explain patterns in arithmetic	1. Use place value understanding and properties of operation to perform multi- digit arithmetic	1. Develop understanding of fractions as numbers	1. Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects	2. Represent and interpret data	3. Geometric measurement: understand concepts of area and relate area to multiplication and addition	4. Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures	1. Reason with shapes and their attributes
4								✓			
16								✓			
22								✓			
25								✓			
27								✓			
28						✓ Enrichment					
36								✓			
46								✓			

FOURTH GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: Enrichment Refers to the section of the activity that correlates with the Common Core	Common Core Mathematics Standards											
	Operations and Algebraic Thinking			Numbers and Operations in Base Ten		Numbers and Operations – Fractions			Measurements and Data			Geometry
	1. Use the four operations with whole numbers to solve problems	2. Gain familiarity with factors and multiples	3. Generate and analyze patterns	1. Generalize place value understanding for multi-digit whole numbers	2. Use place value understanding and properties of operations to perform multi-digit arithmetic	1. Extend understanding of fraction equivalence and ordering	2. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers	3. Understand decimal notation for fractions, and compare decimal fractions	1. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit	2. Represent and interpret data	3. Geometric measurement: understand concept of angle and measure angles	1. Draw and identify lines and angles, and classify shapes by properties of their lines and angles
4										✓		
28								✓ Enrichment	✓			
38	✓				✓					✓		
41										✓		
53								✓ Enrichment				
66	✓				✓			✓				
67	✓				✓					✓		
73										✓		
77										✓		
80										✓		

FIFTH GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: Enrichment Refers to the section of the activity that correlates with the Common Core	Common Core Mathematics Standards										
	Operations and Algebraic Thinking		Numbers and Operations in Base Ten		Numbers and Operations – Fractions		Measurements and Data			Geometry	
	1. Write and interpret numerical expressions	2. Analyze patterns and relationships	1. Understand the place value system	2. Perform operations with multi-digit whole numbers and with decimals to hundredths	1. Use equivalent fractions as a strategy to add and subtract fractions	2. Apply and extend previous understandings of multiplication and division to multiply and divide fractions	1. Convert like measurement units within a given measurement system	2. Represent and interpret data	3. Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition	1. Graph points on the coordinate plane to solve real-world and mathematical problems	2. Classify two-dimensional figures into categories based on their properties
PLT PreK-8 EE Activity Guide											
4								✓			
12	✓ Enrichment	✓ Enrichment									
28			✓ Enrichment								
37								✓			
38	✓	✓	✓	✓				✓	✓		
41								✓			
53				✓ Enrichment							
66			✓	✓		✓					
67				✓							
73								✓			
77								✓		✓	
80								✓		✓	
85				✓							

SIXTH GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: ✓ + Check marks with a plus, mean the activity has a strong correlation to the standard	Common Core Mathematics Standards									
	Ratios and Proportional Relationships	The Number System			Expressions and Equations			Geometry	Statistics and Probability	
		1. Understand ratio concepts and use ratio reasoning to solve problems	1. Apply and extend previous understanding of multiplication and division to divide fractions by fractions	2. Compute fluently with multi-digit numbers and find common factors and multiples	3. Apply and extend previous understanding of numbers to the system of rational numbers	1. Apply and extend previous understandings of arithmetic to algebraic expressions	2. Reason about and solve one-variable equations and inequalities		3. Represent and analyze quantitative relationships between dependent and independent variables	1. Solve real-world and mathematical problems involving area, surface area and volume
PLT PreK-8 EE Activity Guide										
4										✓
12					✓	✓				
16										✓
22										✓
25										✓
27										✓
35									✓	✓
36										✓
37								✓	✓ +	✓
38	✓									✓ +
41										✓

*Continued on next page

KEY: Enrichment Refers to the section of the activity that correlates with the Common Core	Common Core Mathematics Standards									
	Ratios and Proportional Relationships	The Number System			Expressions and Equations			Geometry	Statistics and Probability	
PLT PreK-8 EE Activity Guide	1. Understand ratio concepts and use ratio reasoning to solve problems	1. Apply and extend previous understanding of multiplication and division to divide fractions by fractions	2. Compute fluently with multi-digit numbers and find common factors and multiples	3. Apply and extend previous understanding of numbers to the system of rational numbers	1. Apply and extend previous understandings of arithmetic to algebraic expressions	2. Reason about and solve one-variable equations and inequalities	3. Represent and analyze quantitative relationships between dependent and independent variables	1. Solve real-world and mathematical problems involving area, surface area and volume	1. Develop understanding of statistical variability	2. Summarize and describe distributions
53	✓ Enrichment									
66			✓							
67	✓		✓			✓				
73	✓									
77									✓	✓
80									✓	✓
81									✓ Enrichment	✓ Enrichment
84	✓		✓			✓	✓		✓	✓
85					✓				✓	✓

SEVENTH GRADE-

Correlation of Project Learning Tree's PreK-8 Environmental Education Activity Guide with the Common Core Standards for Mathematics

KEY: + Check marks with a plus, mean the activity has a strong correlation to the standard Enrichment Refers to the section of the activity that correlates with the Common Core	Common Core Mathematics Standards								
	Ratios and Proportional Relationships	The Number System	Expressions and Equations		Geometry		Statistics and Probability		
	1. Analyze proportional relationships and use them to solve real-world and mathematical problems	1. Apply and extend previous understanding of operations with fractions to add, subtract, multiply, and divide rational numbers	1. Use properties of operations to generate equivalent expressions	2. Solve real-life and mathematical problems using numerical and algebraic expressions and equations	1. Draw, construct, and describe geometrical figures and describe the relationship between them	2. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume	1. Use random sampling to draw inferences about a population	2. Draw informal comparative inferences about two populations	3. Investigate chance processes and develop, use and evaluate probability models
PLT PreK-8 EE Activity Guide									
12				✓					
37						✓			
38	✓							✓	
41								✓	
50		✓ +		✓					
53	✓ Enrichment	✓ Enrichment		✓ Enrichment					
67	✓	✓			✓				
77								✓	
80								✓	
85	✓			✓					

