Wolf Ridge ELC Minnesota Academic Standards Matrix

Grade 4 Mathematics			**Daytime Classes**	Animal Signs	Beavers	Birds	Small Mammals	Snowshoe Hare	White-tailed Deer	Wildlife Mgmt	Forest Ecology	Plant Study	Trees and Keys	Wetlands Ecology	Lake Study	Stream Study	Fisheries Mgmt	Frozen Lake Study	Acid Rain	Geology	Weather	Living Lightly	Natures Timing	Ojibwe Heritage	Ojibwe Snowshoe	Seeds of Change	Voyageur Life	Adventure Ropes Course	Rock Climbing	Basic Survival	F.I.R.S.T Games	Beginning Orienteering	Competitive Orienteering	Canoeing	Cross Country Skiing	Superior Snowshoe	Superior View Hike	**Evening Activities**	Astronomy	Block Printing	Creative Expressions	Creature from Wolf Lake	Dream Catchers	Lake Superior Game	Night Hike	Ol Pellets	Paper Making Star Lab	Woodland Art	Volleyball	**Naturalist Programs**	Bats	Fur Trade	History of the North Shore	Logging Camp Life	Raptors	Frozen Beans
Strand I. Mathematical Reasoning																																																									
Sub-strand	**Standard**	**Benchmark**																																																							
0	Apply skills of mathematical representations, communication and reasoning throughout the remaining four content strands.	1. Communicate, reason and represent situations mathematically.														1			1													1	1																								
		3. Evaluate the reasonableness of the solution by considering appropriate estimates and the														3																																									
Strand: II. Number Sense, Computation and Operations																																																									
Sub-strand	**Standard**	**Benchmark**																																																							
A. Number Sens	Represent whole numbers in various ways to quantify information and to solve real-world and mathematical problems. Understand the concept of fractions and decimals.	4. Use rounding and estimation with whole numbers to solve real-world and mathematical problems.														4																																									
B. Computation and Operation	Compete fluently and make reasonable estimates with whole numbers in real-world and mathematical problems. Understand the meanings of arithmetic operations and how they relate to one another.	1. Use addition and subtraction of multi-digit whole numbers to solve multi-step real-world and mathematical problems.																																																							
		5. Use multiplication and division of whole numbers to solve simple real-world and mathematical problems.																								5						5	5																									
Strand: IV. Data Analysis, Statistics and Probability																																																									
Sub-strand	**Standard**	**Benchmark**																																																							
A. Data and Statistics	Represent and interpret data in real-world and mathematical problems.	1. Collect data using observations or surveys and represent the data with tables and graphs with labeling.																	1																																							