Science

HOMES & HABITATS	(Kindergarten)
Core Standard Strand: **K.1 Structure and Function: The natural world includes living and non-living things.**	
K.1P.1	Compare and contrast characteristics of living and non-living things.
K.1L.1	Compare and contrast characteristics of plants and animals.
K.1E.1	Gather evidence that the sun warms land, air and water.
Core Standard Strand: **K.2 Interaction and Change: Living and non-living things move.**	
K.2P.1	Gather evidence that the sun warms land, air and water.
K.2E.1	Gather evidence that the sun warms land, air and water.
Core Standard Strand: **K.3 Scientific Inquiry: Science explores the natural world through observation.**	
K.3S.1	Gather evidence that the sun warms land, air and water.
K.3S.2	Gather evidence that the sun warms land, air and water.

HOMES & HABITATS	(First Grade)
Core Standard Strand: **1.1 Structure and Function: Living and non-living things have characteristics and properties.**	
1.1P.1	Compare and contrast physical properties and composition of objects.
1.1L.1	Compare and contrast characteristics among individuals within one plant or animal group.
1.1E.1	Examine characteristics and physical properties of Earth materials.
Core Standard Strand: **1.2 Interaction and Change: Living and non-living things interact.**	
1.2L.1	Describe the basic needs of living things.
Core Standard Strand: **1.3 Scientific Inquiry: Science explores the natural world using evidence from observations.**	
1.3S.1	Identify and use tools to make careful observations and answer questions about the natural world.
1.3S.2	Record observations with pictures, numbers, or written statements.
1.3S.3	Gather evidence that the sun warms land, air and water.

WHAT'S A FOREST	(First Grade)
Core Standard Strand: **1.1 Structure and Function: Living and non-living things have characteristics and properties.**	

1.1P.1	Compare and contrast physical properties and composition of objects.
1.1L.1	Compare and contrast characteristics among individuals within one plant or animal group.
1.1E.1	Examine characteristics and physical properties of Earth materials.
Core Standard Strand: **1.2 Interaction and Change: Living and non-living things interact.**	
1.2L.1	Describe the basic needs of living things.
Core Standard Strand: **1.3 Scientific Inquiry: Science explores the natural world using evidence from observations.**	
1.3S.1	Identify and use tools to make careful observations and answer questions about the natural world.
1.3S.2	Record observations with pictures, numbers, or written statements.
1.3S.3	Gather evidence that the sun warms land, air and water.
WHAT'S A FOREST	**(Second Grade)**
Core Standard Strand: **2.1 Structure and Function: Living and non-living things vary throughout the natural world.**	
2.1L.1	Compare and contrast characteristics and behaviors of plants and animals and the environments where they live.
Core Standard Strand: **2.2 Interaction and Change: Living and non-living things change.**	
2.2L.1	Describe life cycles of living things.
Core Standard Strand: **2.3 Scientific Inquiry: Scientific inquiry is a process used to explore the natural world using evidence from observations.**	
2.3S.1	Observe, measure, and record properties of objects and substances using simple tools to gather data and extend the senses.
2.3S.2	Make predictions about living and non-living things and events in the environment based on observed patterns.
2.3S.3	Make, describe, and compare observations, and organize recorded data.
FOOD CHAIN FUN	**(Third Grade)**
Core Standard Strand: **3.2 Interaction and Change: Living and non-living things interact with energy and forces.**	
3.2L.1	Compare and contrast the life cycles of plants and animals.
PAST & PRESENT	**(Third Grade)**
Core Standard Strand: **3.1 Structure and Function: Living and non-living things vary in their characteristics and properties.**	
3.1L.1	Compare and contrast the characteristics of offspring and parents.

Core Standard Strand: **3.2 Interaction and Change: Living and non-living things interact with energy and forces.**	
3.2L.1	Compare and contrast the life cycles of plants and animals.
FOOD CHAIN FUN	**(Fourth Grade)**
Core Standard Strand: **4.1 Structure and Function: Living and non-living things can be classified by their characteristics and properties.**	
4.1E.1	Identify properties, uses, and availability of Earth materials.
Core Standard Strand: **4.2 Interaction and Change: Living and non-living things undergo changes that involve force and energy.**	
4.2L.1	Describe the interactions of organisms and the environment where they live.
PAST & PRESENT	**(Fourth Grade)**
Core Standard Strand: **4.1 Structure and Function: Living and non-living things can be classified by their characteristics and properties.**	
4.1E.1	Identify properties, uses, and availability of Earth materials.
Core Standard Strand: **4.2 Interaction and Change: Living and non-living things undergo changes that involve force and energy.**	
4.2L.1	Describe the interactions of organisms and the environment where they live.
TREES OF THE TILLAMOOK	**(Fifth grade)**
Core Standard Strand: **5.1 Structure and Function: Living and non-living things are composed of related parts that function together to form systems.**	
5.1L.1	Explain that organisms are composed of parts that function together to form a living system.
Core Standard Strand: **5.2 Interaction and Change: Force, energy, matter, and organisms interact within living and non-living systems.**	
5.2L.1	Explain the interdependence of plants, animals, and environment, and how adaptation influences survival.
FRESHWATER & FORESTS	**(Fifth grade)**

Core Standard Strand: **5.1 Structure and Function: Living and non-living things are composed of related parts that function together to form systems.**	
5.1L.1	Explain that organisms are composed of parts that function together to forma a living system
Core Standard Strand: **5.2 Interaction and Change: Force, energy, matter, and organisms interact within living and non-living systems.**	
5.2L.1	Explain the interdependence of plants, animals, and environment, and how adaptation influences survival.
Core Standard Strand: **5.3 Scientific Inquiry: Scientific inquiry is a process of investigation based on science principles and questioning, collecting, describing, and examining evidence to explain natural phenomena and artifacts.**	
5.3S.1	Based on observations and science principles, identify questions that can be tested, design an experiment or investigation, and identify appropriate tools. Collect and record multiple observations while conducting investigations or experiments to test a scientific question or hypothesis.
5.3S.2	Identify patterns in data that support a reasonable explanation for the results of an investigation or experiment and communicate findings using graphs, charts, maps, models, and oral and written reports.
5.3S.3	Explain the reasons why similar investigations may have different results.
TREES OF THE TILLAMOOK **(Sixth grade)**	
Core Standard Strand: **6.2 Interaction and Change: The related parts within a system interact and change.**	
6.2L.2	Explain how individual organisms and populations in an ecosystem interact and how changes in populations are related to resources.
FRESHWATER & FORESTS **(Sixth grade)**	
Core Standard Strand: **6.2 Interaction and Change: The related parts within a system interact and change.**	
6.2L.2	Explain how individual organisms and populations in an ecosystem interact and how changes in populations are related to resources.
6.2E.1	Explain the water cycle and the relationship to landforms and weather.
Core Standard Strand: **6.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses, and developing procedures for questioning, collecting, analyzing, and interpreting accurate and relevant data to produce justifiable evidence-based explanations.**	

6.3S.1	Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct an investigation that uses appropriate tools and techniques to collect relevant data.
6.3S.3	Explain why if more than one variable changes at the same time in an investigation, the outcome of the investigation may not be clearly attributable to any one variable.
EVER-CHANGING ECOSYSTEMS	**(Seventh grade)**
Core Standard Strand: **7.2 Interaction and Change: The components and processes within a system interact.**	
7.2L.2	Explain the processes by which plants and animals obtain energy and materials for growth and metabolism.
7.2E.1	Describe and evaluate the environmental and societal effects of obtaining, using, and managing waste of renewable and non-renewable resources.
7.2E.3	Evaluate natural processes and human activities that affect global environmental change and suggest and evaluate possible solutions to problems.
Core Standard Strand: **7.3 Scientific Inquiry: Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses, designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations.**	
7.3S.2	Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.