

Oregon State Standards Alignment -- 4th Grade Activities

SCIENCE	Physical Science		Life Science		Earth Science	
	Oh Buoy!	Don't Burst My Bubble	Insect Investigators	Seed Sleuths	Crumple a Watershed	Shake and Break
<i>Note: Only addressed standards are listed.</i>						
Physical Science						
Matter: Understand structure and properties of matter. SC.05.PS.01 Identify substances as they exist in different states of matter.						
Matter: Understand chemical and physical changes. SC.05.PS.02 Describe the ability of matter to change state by heating and cooling.						
Force: Understand fundamental forces, their forms, and their effects on motion. SC.05.PS.03 Describe and compare the motion of objects.	✓	✓				
SC.05.PS.04 Identify examples of magnetism and gravity exerting force on an object.					✓	
Energy: Understand energy, its transformations, and interactions with matter. SC.05.PS.05 Identify forms of various types of energy and their effects on matter.						
SC.05.PS.06 Describe examples of energy transfer.						✓
Life Science						
Organisms: Understand the characteristics, structure, and functions of organisms. SC.05.LS.01 Group or classify organisms based on a variety of characteristics.			✓			
SC.05.LS.02 Describe the function of organ systems.			✓			
SC.05.LS.03 Describe basic plant and animal structures and their functions.			✓	✓		
Heredity: Understand the transmission of traits in living things. SC.05.LS.04 Describe the life cycle of an organism.				✓		
Diversity/Interdependence: Understand the relationships among living things and between living things and their environments. SC.05.LS.05 Describe the relationship between characteristics of specific habitats and the organisms that live there.			✓	✓	✓	
SC.05.LS.06 Describe how adaptations help a species survive.			✓	✓		

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Earth Science						
The Dynamic Earth: Understand the properties and limited availability of the materials which make up the Earth. SC.05.ES.01 Identify properties and uses of Earth materials.					✓	✓
The Dynamic Earth: Understand changes occurring within the lithosphere, hydrosphere, and atmosphere of the Earth. SC.05.ES.02 Describe patterns of seasonal weather.					✓	
SC.05.ES.03 Identify causes of Earth surface changes.					✓	✓
The Earth in Space: Understand the Earth's place in the solar system and the universe. SC.05.ES.04 Describe the Earth's place in the solar system and the patterns of movement of objects within the solar system using pictorial models.						
Scientific Inquiry						
Forming the Question/Hypothesis: Formulate and express scientific questions or hypotheses to be investigated. SC.05.SI.01 Make observations. Ask questions or form hypotheses based on those observations, which can be explored through scientific investigations.			✓	✓		
Designing the Investigation: Design safe and ethical scientific investigations to address questions or hypotheses. SC.05.SI.02 Design a simple scientific investigation to answer questions or test hypotheses.				✓		
Collecting and Presenting Data: Conduct procedures to collect, organize, and display scientific data. SC.05.SI.03 Collect, organize, and summarize data from investigations.				✓		
Analyzing Data and Interpreting Results: Analyze scientific information to develop and present conclusions. SC.05.SI.04 Summarize, analyze, and interpret data from investigations.				✓		