Main Criteria: Washington State K-12 Learning Standards and Guidelines

Secondary Criteria: Science Grade 4 2017

Subject: Science

Grade: 4

Correlation Options: Show All

Washington State K-12 Learning Standards and Guidelines

Science

Grade: **4** - Adopted: **2014**

EALR	WA.4-PS.	PHYSICAL SCIENCE
BIG IDEA / CORE CONTENT	4-PS3.	Energy
CORE CONTENT / CONTENT STANDARD		Students who demonstrate understanding can:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-PS3-1.	Use evidence to construct an explanation relating the speed of an object to the energy of that object. Science Grade 4 2017 Science 4A- Building Blocks of Matter: Forces and Movement Science 4A- Building Blocks of Matter: Friction Science 4A- Building Blocks of Matter: Motion
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-PS3-2.	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents. Science Grade 4 2017 Science 4B- Module 1: Heat and Temperature Science 4B- Module 1: Light Science 4B- Module 2: Electricity Science 4B- Module 2: Magnetism
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-PS3-3.	Ask questions and predict outcomes about the changes in energy that occur when objects collide. Science Grade 4 2017 Science 4/A/Module 6 - Forces and Movement Science 4/A/Module 6 - Friction
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-PS3-4.	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another. Science Grade 4 2017 Science 4B- Module 2: Electricity
EALR	WA.4-PS.	PHYSICAL SCIENCE
BIG IDEA / CORE CONTENT	4-PS4.	Waves and their Applications in Technologies for Information Transfer
CORE CONTENT / CONTENT STANDARD		Students who demonstrate understanding can:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-PS4-1.	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.

		Science Grade 4 2017 **Science 4B- Module 1: Light** **Science 4B- Module 1: Sound**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**4-PS4-2.**	**Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.** **Science Grade 4 2017** **Science 4B- Module 1: Light** **Science 4B- Module 4: Human Body Systems** **Science 4B- Module 5: Natural Responses**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**4-PS4-3.**	**Generate and compare multiple solutions that use patterns to transfer information.** **Science Grade 4 2017** **Science 4A- Measurements and Instruments: Science Instruments** **Science 4A- Using Scientific Methods: Ocean Features** **Science 4B- Module 2: Electricity** **Science 4B- Module 2: Science & Technology**
EALR	**WA.4-LS.**	**LIFE SCIENCE**
BIG IDEA / CORE CONTENT	**4-LS1.**	**From Molecules to Organisms: Structures and Processes**
CORE CONTENT / CONTENT STANDARD		**Students who demonstrate understanding can:**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**4-LS1-1.**	**Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.** **Science Grade 4 2017** **Science 4A- Using Scientific Methods: Marine Life** **Science 4B- Module 1: Heat and Temperature** **Science 4B- Module 1: Sound** **Science 4B- Module 3: Animal and Plant Cells** **Science 4B- Module 3: Characteristics of Life** **Science 4B- Module 4: Classifying Animals and Plants** **Science 4B- Module 4: Human Body Systems** **Science 4B- Module 4: Plant Systems** **Science 4B- Module 5: Life Cycles** **Science 4B- Module 5: Natural Responses**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**4-LS1-2.**	**Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.** **Science Grade 4 2017** **Science 4B- Module 1: Heat and Temperature**

		Science 4B- Module 1: Light Science 4B- Module 1: Sound Science 4B- Module 4: Human Body Systems Science 4B- Module 5: Natural Responses
EALR	WA.4-ESS.	EARTH AND SPACE SCIENCE
BIG IDEA / CORE CONTENT	4-ESS1.	Earth's Place in the Universe
CORE CONTENT / CONTENT STANDARD		Students who demonstrate understanding can:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-ESS1-1.	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time. <u>Science Grade 4 2017</u> Science 4A- Freshwater on Earth: Rapid Changes on Earth Science 4B- Module 3: History of Life on Earth
EALR	WA.4-ESS.	EARTH AND SPACE SCIENCE
BIG IDEA / CORE CONTENT	4-ESS2.	Earth's Systems
CORE CONTENT / CONTENT STANDARD		Students who demonstrate understanding can:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-ESS2-1.	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation. <u>Science Grade 4 2017</u> Science 4A- Freshwater on Earth: Deposition Science 4A- Freshwater on Earth: Erosion Science 4A- Freshwater on Earth: Freshwater on earth Science 4A- Freshwater on Earth: Rapid Changes on Earth Science 4A- Freshwater on Earth: Weathering Science 4A- The Atmosphere and Air: Types of Weather and Clouds Science 4A- Using Scientific Methods: Living on Planet Earth
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-ESS2-2.	Analyze and interpret data from maps to describe patterns of Earth's features. <u>Science Grade 4 2017</u> Science 4A- Freshwater on Earth: Freshwater on earth Science 4A- The Atmosphere and Air: Understanding Climate
EALR	WA.4-ESS.	EARTH AND SPACE SCIENCE
BIG IDEA / CORE CONTENT	4-ESS3.	Earth and Human Activity
CORE CONTENT / CONTENT STANDARD		Students who demonstrate understanding can:
CONTENT STANDARD / PERFORMANCE EXPECTATION	4-ESS3-1.	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

		Science Grade 4 2017 **Science 4A- Freshwater on Earth: Deposition** **Science 4A- Freshwater on Earth: Freshwater on earth** **Science 4A- Galaxies and Stars: Conservation** **Science 4A- Galaxies and Stars: Natural Resources** **Science 4A- Galaxies and Stars: Renewable and Nonrenewable** **Science 4A- The Atmosphere and Air: Human Effects on Climate** **Science 4B- Module 1: Heat and Temperature** **Science 4B- Module 2: Electricity** **Science 4B- Module 6: Humans & The Environment**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**4-ESS3-2.**	**Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.** **Science Grade 4 2017** **Science 4A- Freshwater on Earth: Erosion** **Science 4A- Freshwater on Earth: Rapid Changes on Earth** **Science 4A- The Atmosphere and Air: Characteristics of Air** **Science 4A- The Atmosphere and Air: Observing Weather** **Science 4A- The Atmosphere and Air: Types of Weather and Clouds** **Science 4A- The Atmosphere and Air: Weather**
EALR	**WA.3-5-ETS.**	**ENGINEERING DESIGN**
BIG IDEA / CORE CONTENT	**3-5-ETS1.**	**Engineering Design**
CORE CONTENT / CONTENT STANDARD		**Students who demonstrate understanding can:**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**3-5-ETS1-1.**	**Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.** **Science Grade 4 2017** **Science 4A- Galaxies and Stars: The Universe** **Science 4A- Measurements and Instruments: Measuring Temperature** **Science 4A- Measurements and Instruments: Properties of Matter** **Science 4B- Module 1: Heat and Temperature** **Science 4B- Module 1: Light** **Science 4B- Module 1: Sound** **Science 4B- Module 2: Science & Technology**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**3-5-ETS1-2.**	**Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.**

		Science Grade 4 2017 **Science 4A- Galaxies and Stars: The Universe** **Science 4A- Measurements and Instruments: Measuring Temperature** **Science 4A- Measurements and Instruments: Properties of Matter** **Science 4B- Module 1: Heat and Temperature** **Science 4B- Module 1: Light** **Science 4B- Module 1: Sound** **Science 4B- Module 2: Science & Technology**
CONTENT STANDARD / PERFORMANCE EXPECTATION	**3-5-ETS1-3.**	**Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.** **Science Grade 4 2017** **Science 4A- Galaxies and Stars: The Universe** **Science 4A- Measurements and Instruments: Measuring Temperature** **Science 4A- Measurements and Instruments: Properties of Matter** **Science 4B- Module 1: Heat and Temperature** **Science 4B- Module 1: Light** **Science 4B- Module 1: Sound** **Science 4B- Module 2: Science & Technology**