Zingy Learning NGSS 4th Grade Correlation Document

Unit 1: Forms of energy Lesson 1: Simple circuit Lesson 2: Battery Lesson 3: Electrical switch Lesson 4: Brightness Lesson 5: Electric current I Lesson 6: Electric current II Lesson 7: Circuit components Lesson 8: Forms of energy Lesson 9: Electric generator Lesson 10: Light Lesson 11: Heat Lesson 12: Sound	4-PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents. 4-PS3-4. Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.

Unit 2: Motion Lesson 1: Motion Lesson 2: Forces Lesson 3: Collision I Lesson 4: Collision II Lesson 5: Transfer of energy	4-PS3-1. Use evidence to construct an explanation relating the speed of an object to the energy of that object. 4-PS3-3. Ask questions and predict outcomes about the changes in energy that occur when objects collide.

Unit 3: Energy resources Lesson 1: Electricity production Lesson 2: Fossil fuels Lesson 3: Global warming Lesson 4: Resources and the environment Lesson 5: Renewable and non-renewable	4-ESS3-1. Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

Unit 4: Waves Lesson 1: Waves and energy Lesson 2: Wavelength and amplitude Lesson 3: Breaking waves	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.

Unit 5: Digital information Lesson 1: Cell phone Lesson 2: Transfer of information	4-PS4-3. Generate and compare multiple solutions that use patterns to transfer information.

Unit 6: Light and seeing Lesson 1: Seeing Lesson 2: Mirrors Lesson 3: Light source	4-PS4-2. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.

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Unit 7: Sensory receptors and the brain Lesson 1: Seeing Lesson 2: Tasting and smelling Lesson 3: Touching Lesson 4: Hearing Lesson 5: The brain Lesson 6: Memory	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.

Unit 8: Plants and Animals Lesson 1: Plants parts Lesson 2: Plant reproduction Lesson 3: Plant defense Lesson 4: Animal respiration	4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

Unit 9: Weathering and erosion Lesson 1: Weathering and erosion Lesson 2: Sand Lesson 3: Soil Lesson 4: Soil erosion	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.

Unit 10: The Grand Canyon Lesson 1: Canyons Lesson 2: Fossils and rock layers Lesson 3: Faults	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.

Unit 11: Earth's features Lesson 1: Earth Lesson 2: Mountains Lesson 3: Trends	4-ESS2-2. Analyze and interpret data from maps to describe patterns of Earth's features.

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