OSSD Scope & Sequence: Science Grade 4

Scope & Sequence (S&S) is an overview of the skills and content covered in your curriculum at each class/instructional level. It provides an overview of the length of time (scope) and the order (sequence) in which key content will be taught. This template is intended to help develop a S&S for one class/instructional level.

Grade Level(s): 4
Content Area and/or Course Title: Science

Unit Title	Time/Term	Focus Standards from NGSS
Earth Systems: Processes That Shape the Earth	**Trimester 1 Unit 1**	**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. **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. **4-ESS2-2.** Analyze and interpret data from maps to describe patterns of Earth's features. **4-ESS3-2.** Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.
Energy	**Trimester 2 Unit 2**	**4-PS3-1.** Use evidence to construct an explanation relating the speed of an object to the energy of that object. **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-PS3-3.** Ask questions and predict outcomes about the changes in energy that occur when objects collide. **4-PS3-4.** Apply scientific ideas to design, test, and refine a device that converts energy from one form to another. **4-ESS3-1.** Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

Waves & Information	**Trimester 2 Unit 3**	**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. **4-PS4-3.** Generate and compare multiple solutions that use patterns to transfer information.
Structure, Function, and Information Processing	**Trimester 3 Unit 4**	**4-PS4-2.** Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen. **4-LS1-1.** Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. **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.