

Grade 4 Science Content Connections between 2021 and 2014

The purpose of this document is to assist teachers with identifying the content connections between the South Carolina College-and Career-Ready 2021 Science Standards and the 2014 Science Standards and Performance Indicators (PI). **These content connections may not be direct or match in breadth/depth between the two sets of standards.** For the 2022–2023 school year, students will be assessed on the 2014 Science Standards.

2021 Performance Expectation	2014 PI
4-PS3-1. Use evidence to construct an explanation relating the speed of an object to the energy of that object.	Nothing Direct
4-PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	3.P.3A.1
4-PS3-3. Ask questions and predict outcomes about the changes in energy that occur when objects collide.	Nothing Direct
4-PS3-4. Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.	Nothing Direct
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.	8.P.3A.1 8.P.3A.2
4-PS4-2. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	1.P.2A.1 1.P.2A.1 1.P.2A.3 4.P.4A.3 4.P.4A.4 4.P.4A.5
4-PS4-3. Generate and compare multiple solutions that use patterns to transmit information.	4.P.4B.3 8.P.3A.6

2021 Performance Expectation	2014 PI
4-LS1-1. Construct an argument that plants and animals have internal and external structures that function together in a system to support survival, growth, behavior, and reproduction.	K.L.2A.3 1.L.5A.1 2.L.5A.2 4.L.5B.2 4.L.5B.3
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.	K.L.2A.4 3.L.5B.3 4.L.5B.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.	8.E.6A.2 8.E.6A.4
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.	3.E.4B.2 5.E.3A.1 5.E.3B.1 8.E.5A.1
4-ESS2-2. Analyze and interpret data from maps to describe patterns of Earth's features.	1.E.4A.2 3.E.4A.2 3.E.4B.1
4-ESS3-1. Obtain and combine information to describe that energy and fuels are derived from natural resources and how their uses affect the environment.	1.E.4B.1 3.E.4A.2 8.E.5C.1
4-ESS3-2. Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	8.E.5B.3