

Fourth Grade	
Life Science Practices and Concepts	
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.
Earth and Space Science Practices and Concepts	
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.
Physical Science Practices and Concepts	
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.
4.PS3-4	Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.
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.
Engineering and Application	
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.
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.
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.