



MASTERY VIEW Predictive Assessments

South Carolina 4th GRADE SCIENCE Pacing Guide

Topic	Performance Expectations	Major Concepts
Energy: Speed and Collisions	4-PS3-1 4-PS3-3	Use evidence to construct an explanation relating the speed of an object to the energy of that object. Ask questions and predict outcomes about the changes in energy that occur when objects collide.
Energy: Transfer and Conversions	4-PS3-2 4-PS3-4	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents. Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.
Energy: Natural Resources	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.
1st Cumulative Assessment (covering all content to this point)		
Waves and Their Applications	4-PS4-1 4-PS4-2 4-PS4-3	Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move. Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen. Generate and compare multiple solutions that use patterns to transmit information.
Organisms: Structures and Processes	4-LS1-1 4-LS1-2	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. 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.
2nd Cumulative Assessment (covering all content to this point)		
Changes and Patterns in Rock Layers	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.
Changes and Patterns in Earth's Features	4-ESS2-1 4-ESS2-2	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation. Analyze and interpret data from maps to describe patterns of Earth's features.
Solutions for Natural Hazards	4-ESS3-2	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.
Final Comprehensive Assessment (covering all content)		