

Sheridan County School District #3
2019-2020
4th Science Priority Standards
(09/17/19)

Physical Science		4.PHY
<i>Energy</i>		
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 every 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.	
<i>Waves and Their Applications in Technologies for Information Transfer</i>		
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.PS4-2	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.	
4.PS4-3	Generate and compare multiple solutions that use patterns to transfer information.	
Life Science		4.LS
<i>From Molecules to Organisms: Structure and Processes</i>		
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 & Space		4.ESS
<i>Earth's Place in the Universe</i>		
4.ESS1-1	Identify evidence from patterns in rock formations and fossils in rock layers to support and explanation for changes in a landscape over time.	
<i>Earth's Systems</i>		
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.	
<i>Earth and Human Activity</i>		
4.ESS3-1	Obtain and combine information to describe that energy and fuels are derived from renewable and non-renewable resources and how their uses affect the environment.	
4.ESS3-2	Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	
Engineering, Technology and Applications of Science		3-5.ETS
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.