Fourth Grade Report Card – Parent Support
SCIENCE
Marking Period Expectations for Standards Based Report Card

		Report Card Indicators			
Next Generation Science Units	**Next Generation Science Standards**	**Scientific Inquiry:** Understand that scientific inquiry is the process of predicting, planning, conducting, observing, describing and classifying information **MP 1 -3 Expectations**	**Scientific Literacy:** Demonstrate scientific literacy through listening, speaking, presenting, reading and writing about science. **MP 1 -3 Expectations**	**Scientific Numeracy:** Understand that measurement and mathematics provide useful tools for accurately collecting data. Is able to use data to draw conclusion of scientific processes and ideas. **MP 1 -3 Expectations**	**Scientific Content:** Grasp concepts presented during trimester. **MP 1 -3 Expectations**
Energy **Standard 4-PS3**	**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,	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.

	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.		communicate observations and results of investigations using Venn Diagrams, journaling, and research with minimal teacher guidance.		
Waves and their Applications in Technologies for Information Transfer **Standard 4-PS4**	**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.	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to communicate observations and results of investigations using Venn Diagrams, journaling, and research with minimal teacher guidance.	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.

From Molecules to Organisms: Structures and Processes Standard 4-LS1	**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.	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to communicate observations and results of investigations using Venn Diagrams, journaling, and research with minimal teacher guidance.	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.
Earth's Place in the Universe Standard 4-ESS1	**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.	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to communicate observations and results of investigations using	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.

			Venn Diagrams, journaling, and research with minimal teacher guidance.		
Earth's Systems **Standard 4-ESS2**	**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.	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to communicate observations and results of investigations using Venn Diagrams, journaling, and research with minimal teacher guidance.	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.
Earth and Human Activity **Standard 4-ESS3**	**4-ESS3-1.** Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment. **4-ESS3-2.** Generate and compare multiple solutions to reduce	Construct a hypothesis and design a test that will generate appropriate evidence to confirm or reject the hypothesis.	Organize data into charts or graphs and use them to communicate some of the results of investigations. Use evidence to develop an argument or explanation with teacher guidance. Use writing, drawing, and discussion to	Perform accurate measurements in science investigations	Demonstrate an understanding of most concepts presented during the trimester.

	the impacts of natural Earth processes on humans.		communicate observations and results of investigations using Venn Diagrams, journaling, and research with minimal teacher guidance.		