Grade 5 – SCIENCE
Skills Based Report Card

Skills and Expectations	Standards	Students will be able to…
Scientific Inquiry: Understands that scientific inquiry is the process of predicting, planning, conducting, observing, describing and classifying information	**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.	• Ask questions to guide investigation. • Make a prediction. • Work together in partners or groups to conduct experiment. • Record results or observations. • Answer questions by drawing conclusions based on data.
Scientific Literacy: Demonstrates scientific literacy through listening, speaking, presenting, reading and writing about science	**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.	• Write a summary paragraph about what was learned by conducting experiment. • Present group conclusions to the class. • Summarize or reflect on extension activities with science texts or independent research. • Summarize or reflect on extension activities with science videos.
Scientific Numeracy: Understands that measurement and mathematics provide useful tools for the description, analysis, and presentation of scientific data and ideas	**5-ESS2-1** Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. **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. **5-PS1-2** Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved. **5-PS1-3** Make observations and measurements to identify materials based on their properties.	**Landforms Unit:** • Use scale to create accurate map of landform model. • Record time to measure effect of slope and flood on landform development. **Levers and Pulleys Unit:** • Use a spring scale to measure effort. • Plot results on line graph. • Make predictions using a graph. **Mixtures and Solutions Unit:** • Use gram scale to measure solutions. • Use measurements to determine amount of substance dissolved in solution.

	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.	**Variables Unit:** • Create a concrete, picture, and a two coordinate graph. • Use graphs to make predictions. • Average results when conducting multiple trials.
Scientific Content: Demonstrates and applies understanding of core concepts	**5-ESS2-1** Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. **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. **5-PS1-3** Make observations and measurements to identify materials based on their properties. **5-PSI-4** Conduct an investigation to determine whether the mixing of two or more substances results in new substances. **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.	**Landforms Unit:** • Define landform, erosion and deposition. **Levers and Pulleys Unit:** • Define simple machines, levers, pulleys, work, and friction. **Mixtures and Solutions Unit:** • Define mixture, solution, evaporation, crystal, reaction, concentration, and dissolving. **Variables Unit:** • Define variables, standard, system, and multiple trials.