Fourth Grade Science Rubric

Fourth Grade Science Rubric	**1-Limited Understanding of Grade Level Standard**	**2-Progressing Towards Grade Level Standard**	**3-Meets Grade Level Standard**
Earth Science: Earth's Features			
Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.	With support, uses evidence from models or data to support an explanation and provide reasoning. With support, may use scientific vocabulary in explanation and reasoning. With support, Explains verbally or in writing, the reasons a landscape changes over time.	Partially uses evidence from models or data to support an explanation and provide reasoning. Partially uses scientific vocabulary in explanation and reasoning. Partially explains verbally or in writing, the reasons a landscape changes over time.	Uses evidence from models or data to support an explanation and provide reasoning. Uses scientific vocabulary in explanation and reasoning. Explains verbally or in writing, the reasons a landscape changes over time.
Physical Science: Modeling Matter			
Develop and refine a model to describe that matter is made of particles too small to be seen.	With support, creates a digital or drawn model that may demonstrate how molecules interact. With support, describes verbally or in writing, the interaction of particles too small to be seen and may include misconceptions about the interaction.	Partially creates a digital or drawn model that demonstrates how molecules interact. Partially describes, verbally or in writing, the interaction of particles too small to be seen and may include misconceptions about the interaction.	Creates a digital or drawn model that accurately demonstrates how molecules interact. Describes, verbally or in writing, the interaction of particles too small to be seen.
Earth Science: The Earth System			
Develop a model based in part on student observations or data to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact.	With support, may provide a 3-D or drawn model of a freshwater collection system. With support, may be able to use observations or data from the model to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	Partially develops a partial 3-D or drawn model of a freshwater collection system Partially uses observations or data from the model to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact.	Develops a 3-D or drawn model of a freshwater collection system. Uses observations or data from the model to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact.