Seventh Grade State Performance Standards

History of Nature and Science	**SG** Students develop an understanding of the history and nature of science. **SG1** Students develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge. **SG2** Students develop an understanding that the advancement of scientific knowledge embraces innovation and requires empirical evidence, repeatable investigations, logical arguments, and critical review in striving for the best possible explanations of the natural world. **SG3** Students develop an understanding that scientific knowledge is ongoing and subject to change as new evidence becomes available through experimental and/or observational confirmation(s). **SG4** Students develop an understanding that advancements in science depend on curiosity, creativity, imagination, and a broad knowledge base.

Grade Level Expectations	KGBSD Student Objectives
The student demonstrates an understanding of the bases of the advancement of scientific knowledge by:	
[7] SG2.1 explaining differences in results of repeated experiments.	K - SG2.1 knowing that scientists may repeat and investigate similar studies before accepting results as valid. K – SG3.1 explaining that biologists consider details of internal and external structure to be more important than behavior or general appearance for inferring relatedness among organisms.
The student demonstrates an understanding that scientific knowledge is ongoing and subject to change by:	
[7] SG3.1 revising a personal idea when presented with experimental/observational data inconsistent with that personal idea (e.g., the rates of falling bodies of different masses). (L)	K – SG3.2 understanding that scientific knowledge changes as new information challenges prevailing theories and new theories lead to looking at old observations in a new way.