

State Goal	State Objective	Essential Question	Learner skills - e.g. "explain", "compare", "interpret". Can have more than 1 skill per box
1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	How can we get the same results from an experiment in our classroom that students around the world get?	Describe scientific methods.
1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	How can we learn from conducting experiments; how do they prove anything?	Distinguish among independent variables, dependent variables, constants, and controls.
1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	1.6.7 Explain the differences among observations, hypotheses, and theories. (649.01g)	What is the difference between a scientific law and a scientific theory?	Compare and contrast scientific theories and scientific laws.
1.3: Understand Constancy, Change, and Measurement	1.3.3 Measure and calculate using the metric system. (648.03c)	What's the difference between a millimeter and a kilometer?	Name the prefixes used in SI and indicate what multiple of ten each one represents.
1.3: Understand Constancy, Change, and Measurement	1.3.3 Measure and calculate using the metric system. (648.03c)	What do moles, kelvin, and candelas have to do with measurements?	Identify SI units and symbols for length, volume, mass, density, time and temperature.
1.3: Understand Constancy, Change, and Measurement	1.3.3 Measure and calculate using the metric system. (648.03c)	How many millimeters are there in a meter?	Convert related SI units.
2.2: Understand Concepts of Motion and Forces	2.2.1 Explain motion using Newton's Laws of Motion. (650.04b)	How are distance and displacement related?	Distinguish between distance and displacement.