State Goal	State Objective	Essential Question	Learner skills - e.g. "explain", "compare", "interpret". Can have more than 1 skill per box	Content - e.g. chapter, unit, section	Activities	Assessments	Week Started	Technology	Notes	Grade Level	Course	State Prefix
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	C 1 The Nature of Science	Notes, Vocab., Worksheets	Worksheets	August				Earth Science	
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.	C 1 The Nature of Science			August				Earth Science	
1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	1.6.7 Explain the differences among observations, hypotheses, and theories. (648.01a)	What is the difference between a scientific law and a scientific theory?	Compare and contrast scientific theories and scientific laws	C 1 The Nature of Science			August				Earth Science	
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.	C 1 The Nature of Science	Labs	Lab work	August				Earth Science	
1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	1.6.7 Explain the differences among observations, hypotheses, and theories. (648.01a)	What is the difference between a scientific law and a scientific theory?	Compare and contrast scientific theories and scientific laws	C 1 The Nature of Science	Labs		August				Earth Science	
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 milliliter and a kilometer?	Name the prefixes used in SI and indicate what multiple of ten each one represents	C 1 The Nature of Science	Labs		August				Earth Science	
1.1: Understand Systems, Order, and Organization	1.1.2 Apply the concepts of order and organization to a given system. (648.01a)	How are minerals classified?	Apply the concepts of order and organization to a given system	C 3 Minerals	Notes, Vocab., Worksheets	Worksheets	September				Earth Science	
1.1: Understand Systems, Order, and Organization	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	How are minerals different from each other?	Categorize minerals using characteristics to identify them.	C 3 Minerals	Mineral Keying	Lab sheets	September				Earth Science	
1.1: Understand Systems, Order, and Organization	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	How are rocks different from minerals?	Distinguish between a rock and a mineral.	C 4 Rocks	Notes, Vocab., Worksheets	Worksheets	October				Earth Science	
1.1: Understand Systems, Order, and Organization	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	Why do some rocks look like they are made of several different materials?	Describe the rock cycle and somechanges that a rock could undergo.	C 4 Rocks	Rock Keying	Lab sheets	October				Earth Science	
1.1: Understand Systems, Order, and Organization	1.2.1 Use observations and data as evidence on which to base scientific explanations. (648.02a)	What are the differences between intrusive and extrusive rocks?	Contrast the formation of intrusive and extrusive igneous rocks.	C 4 Rocks			October				Earth Science	
1.1: Understand Systems, Order, and Organization	1.1.2 Apply the concepts of order and organization to a given system. (648.01a)	How are granite and basalts different from each other?	Contrast granitic and basaltic igneous rocks.	C 4 Rocks			October				Earth Science	
4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems	4.1.1 Explain the current scientific theory that suggests that the solar system formed from a nebular cloud of dust and gas. (654.01a)	Where do rocks come from in the first place?	Describe the conditions in Earth that cause metamorphic rocks to form	C 4 Rocks			October				Earth Science	
1.1: Understand Systems, Order, and Organization	1.1.2 Apply the concepts of order and organization to a given system. (648.01a)	Why do some rocks look like the layers of a cake?	Explain how sedimetary rocks form from sediments	C 4 Rocks			October				Earth Science	
4.2: Understand Geo-chemical Cycles and Energy in the Earth System	4.2.1 Explain the internal and external energy sources of the earth (654.02a)	What energy sources are considered renewable?	Identify examples of nonrenewable energy resources.	C 5 Earth's Energy and Mineral Resources	Notes, Vocab., Worksheets	Worksheets	November				Earth Science	
1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	1.2.3 Develop scientific explanations based on knowledge, logic, and analysis. (648.02c)	Why not just rely on fossil fuels longer?	Describe the advantages and disadvantages of using basal fuels	C 5 Earth's Energy and Mineral Resources	Film w/ SQ	Studyguide	November				Earth Science	
1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	1.2.3 Develop scientific explanations based on knowledge, logic, and analysis. (648.02c)	Is nuclear energy the answer to all our energy needs?	Explain the advantages and disadvantages of using nuclear energy	C 5 Earth's Energy and Mineral Resources	Energy Crosswords & Puzzles		November				Earth Science	