

Unit/Topic	Learning Objectives	Essential Questions	Key Concepts	Activities	Assessments	Week	Technology	Notes	Grade Level	Course	Class
2. Understand Concepts and Processes of Evidence, Models, and Explanations	2.1 Use observations and data as evidence on which to base scientific explanations. (4-8 EDe)	How can we get the same results from an experiment in our classroom that students would see in nature?	Describe scientific methods.	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
2. Understand Concepts and Processes of Evidence, Models, and Explanations	2.1 Use observations and data as evidence on which to base scientific explanations. (4-8 EDe)	How can we learn from conducting experiments: how do they work and why?	Distinguish among independent variables, dependent variables, constants, and controls.	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
6. Understand Scientific Inquiry and Design: Critical Thinking Skills	6.1 Explain the difference among observations, hypotheses, and scientific theories. (4-8 EDe)	What is the difference between a scientific law and a scientific theory?	Compare and contrast scientific theories and scientific laws.	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
8. Understand Continuity, Change, and Measurement	8.1 Measure and calculate using the metric system. (4-8 EDe)	What is the difference between a millimeter and a micrometer?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	How are minerals different from each other?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	How are rocks different from minerals?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	Why do some rocks look like they are made of several different materials?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	What are the differences between intrusive and extrusive igneous rocks?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	How are granite and basalt different from each other?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	Where do rocks come from in the hot planets?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	Why do some rocks look like the layers of a cake?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
1.1 Understand Systems, Order, and Organization	1.1.1 Apply the concepts of order and organization to a given system. (4-8 EDe)	What energy sources are considered renewable?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
2. Understand Concepts and Processes of Evidence, Models, and Explanations	2.1 Develop scientific explanations based on knowledge, logic, and analysis. (4-8 EDe)	Why isn't just rely on fossil fuels energy?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class
2. Understand Concepts and Processes of Evidence, Models, and Explanations	2.1 Develop scientific explanations based on knowledge, logic, and analysis. (4-8 EDe)	Is nuclear energy the answer to our energy needs?	Apply the concepts of order and organization to a given system. (4-8 EDe)	Content - e.g. "Fossil" Cart from rock record	Activities, Assessments	Week 1	Technology	Notes	Grade 8	Science	Class