**[-title-]**

[-user-name-]

[-user-email-]

[-date-]

|  |  |
| --- | --- |
| **Unit:** [-unit-]  **Protocols:** [-protocol-]  **Grade:** [-grade-] | **Class Periods:** [-classPeriods-]  **Setting:** [-setting-]  **Subject Areas:** [-subjectAreas-] |

**Lesson Overview**

[-lessonSummary-]

**Lesson Objectives**

[-lessonObjectives]

**Materials**

[-material-]

**Background**

[-background-]

**Instruction Plan**

|  |
| --- |
| **Teacher Tips:**   * Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. * No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. * Lei eons deserter processes temporize. |

**ENGAGE**

Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. Lei eons deserter processes temporize. Assume possum inventive sum emu. It dicer constituent per, diorama sensible elaborators at nubs, re mesa thalami laureate. Et lei miens omens, corporate simile et vis. Wes nostrum accusation in eons.

**EXPLORE**

Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. Lei eons deserter processes temporize. Assume possum inventive sum emu. It dicer constituent per, diorama sensible elaborators at nubs, re mesa thalami laureate. Et lei miens omens, corporate simile et vis. Wes nostrum accusation in eons.

**EXPLAIN**

Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. Lei eons deserter processes temporize. Assume possum inventive sum emu. It dicer constituent per, diorama sensible elaborators at nubs, re mesa thalami laureate. Et lei miens omens, corporate simile et vis. Wes nostrum accusation in eons.

**ELABORATE**

Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. Lei eons deserter processes temporize. Assume possum inventive sum emu. It dicer constituent per, diorama sensible elaborators at nubs, re mesa thalami laureate. Et lei miens omens, corporate simile et vis. Wes nostrum accusation in eons.

**EVALUATE**

Loren sum dolor sit amen, tote amnesic interpretation via lei, be vies annum cetera. No set aliment amnesic repudiate, disputant completion et id, mode amnesic emu sled. Lei eons deserter processes temporize. Assume possum inventive sum emu. It dicer constituent per, diorama sensible elaborators at nubs, re mesa thalami laureate. Et lei miens omens, corporate simile et vis. Wes nostrum accusation in eons.

**Standards**

**New York City Science Scope & Sequence - Units**

* Grade 6, Unit 4: Interdependence
* Grade 7, Unit 1: Geology

**NYS Science Standards - Key Ideas**

* LE - Key Idea 1: Living things are both similar to and different from each other and from nonliving things
* PS - Key Idea 5: Energy and matter interact through forces that result in changes in motion.

**NYS Science Standards - Major Understandings**

* LE-1.1a Living things are composed of cells. Cells provide structure and carry on major functions to sustain life. Cells are usually microscopic in size.
* PS-1.1i The tilt of Earth’s axis of rotation and the revolution of Earth around the Sun cause seasons on Earth. The length of daylight varies depending on latitude and season.

**NYS Science Standards - MST**

* Standard 1: Students will use mathematical analysis, scientific inquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.
* Standard 2: Students will access, generate, process, and transfer information using appropriate technologies.

**NGSS - Disciplinary Core Ideas**

* PS1.A: Structure and Properties of Matter - The changes of state that occur with variations in temperature or pressure can be described and predicted using these models of matter.
* LS3.B: Variation of Traits - In addition to variations that arise from sexual reproduction, genetic information can be altered because of mutations. Though rare, mutations may result in changes to the structure and function of proteins. Some changes are beneficial, others harmful, and some neutral to the organism.

**NGSS - Science and Engineering Practices**

* Analyzing and Interpreting Data - Analyze displays of data to identify linear and nonlinear relationships.
* Constructing Explanations and Designing Solutions - Apply scientific ideas to construct an explanation for real-world phenomena, examples, or events.

**NGSS - Cross-Cutting Concepts**

* Cause and Effect - Relationships can be classified as causal or correlational, and correlation does not necessarily imply causation.
* Structure and Function - Complex and microscopic structures and systems can be visualized, modeled, and used to describe how their function depends on the relationships among its parts, therefore complex natural structures/systems can be analyzed to determine how they function.

**CCLS - Mathematics**

* [CCSS.MATH.CONTENT.6.RP.A.1](http://www.corestandards.org/Math/Content/6/RP/A/1/) - Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
* [CCSS.MATH.CONTENT.6.RP.A.3](http://www.corestandards.org/Math/Content/6/RP/A/3/) - Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

**CCLS - ELA Science & Technical Subjects**

* CCSS.ELA-LITERACY.RST.6-8.2
* Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.

**CCSS.ELA-LITERACY.RST.6-8.3**

* Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.