

Earth Science - Fall 2020

Course Overview, Schedule, and Calendar



Course Overview and Introduction

Topics:

- safe experiments
- ethical behavior
- scientific method

Unit 1: Earth's Composition and Structure

Topics:

- plate tectonics
- sea floor spreading
- volcanoes
- earthquakes

Unit 2: Earth Rocks!

Topics:

- history of the Earth
- geologic time
- relative dating
- fossils
- minerals
- rock cycle

Unit 3: Stars

Topics:

- Our Star: The Sun
- galaxies
- The Big Bang
- The Solar System

August/ September

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	<p>8/24 Unit: Overview / Intro Topic(s): Overview/Intro</p> <p>Activities: introductions, syllabus, course overview, tech, expectations, schedule, procedures, distance days, questions</p>	<p>8/25 Unit: Overview / Intro Topic(s): Overview/Intro</p> <p>Activities: You Rock! - Online activity</p> <p>Check-in via Google Meet</p>	<p>8/26 Unit: Overview / Intro Topic(s): safe experiments ethical behavior scientific method</p> <p>Activities: Pre-Assessment via lead discussion / mindmap</p>	<p>8/27 Unit: Overview / Intro Topic(s): scientific method</p> <p>Activities: scientific method slideshow via Google Slides</p>	<p>8/28 Unit: Overview / Intro Topic(s): Overview/Intro scientific method</p> <p>Activities: Turn in week 1 work: You Rock!: DUE Slides: DUE</p>
2	<p>8/31 Unit: Overview / Intro</p> <p>Topic(s): scientific method</p> <p>Activities: LAB: Measurement and Process Skills</p>	<p>9/1 Unit 1: Earth's Composition/Structure Topic(s): plate tectonics sea floor spreading</p> <p>Activities: Earth Processes Video lesson part 1</p>	<p>9/2 Unit 1: Earth's Composition/Structure Topic(s): plate tectonics sea floor spreading</p> <p>Activities: LAB: Plates, Melting Rocks, Currents in the Mantle</p>	<p>9/3 Unit 1: Earth's Composition/Structure Topic(s): plate tectonics earthquakes</p> <p>Activities: Earth Processes Video lesson part 2</p>	<p>9/4 Unit: Earth's Composition/Structure Topic(s): earthquakes plate tectonics sea floor spreading</p> <p>Activities: Turn in week 2 work: E.P. 1 & 2 notes: DUE</p>
3	<p>9/7 Labor Day No School</p>	<p>9/8 Unit 1: Earth's Composition/Structure Topic(s): volcanoes</p> <p>Activities: Earth Processes Video lesson part 3</p>	<p>9/9 Unit 1: Earth's Composition/Structure Topic(s): plate tectonics volcanoes</p> <p>Activities: LAB: Plutons, Volcanoes!</p>	<p>9/10 Unit 1: Earth's Composition/Structure Topic(s): all in Unit 1</p> <p>Activities: Unit 1 Lab Notes go Analog to Digital</p>	<p>9/11 Unit 1: Earth's Composition/Structure Topic(s): all in Unit 1</p> <p>Activities: Turn in week 3 work: E.P. part 3 notes: DUE Unit 1 Notes: DUE</p>

Week	Monday	Tuesday	Wednesday	Thursday	Friday
4	<p>9/14 Unit 1: Earth's Composition/Structure Topic(s): all in Unit 1</p> <p>Activities: Unit 1 review Unit 1 study guide</p>	<p>9/15 Unit 1: Earth's Composition/Structure Topic(s): all in Unit 1</p> <p>Activities: Google Meet Support Unit 1 study guide DUE</p>	<p>9/16 Unit 1: Earth's Composition/Structure Topic(s): all in Unit 1</p> <p>Activities: Unit 1: Earth's Composition/Structure TEST</p>	<p>9/17 Unit 1: Earth's Composition/Structure Topic(s): all in Intro Unit all in Unit 1</p> <p>Activities: Make-up & Reteach Google Meet Support</p>	<p>9/18 Unit 1: Earth's Composition/Structure Topic(s): all in Intro Unit all in Unit 1 Activities: Unit 1 Test Retakes *All last chance late assignments DUE</p>
5	<p>9/21 Unit 2: Earth Rocks! Topic(s): history of the Earth geologic time</p> <p>Activities: class videos, group discussion, pre assessment</p>	<p>9/22 Unit 2: Earth Rocks! Topic(s): history of the Earth geologic time</p> <p>Activities: Checks:Google Meet, E.History slideshow via Google Slides</p>	<p>9/23 Unit 2: Earth Rocks! Topic(s): history of the Earth geologic time</p> <p>Activities: LAB: Geologic Time</p>	<p>9/24 Unit 2: Earth Rocks! Topic(s): history of the Earth geologic time</p> <p>Activities: Checks:Google Meet, Earth History Slides DUE</p>	<p>9/25 Unit 2: Earth Rocks! Topic(s): history of the Earth geologic time</p> <p>Activities: Class Slideshow - view and comment</p>
6	<p>9/28 Unit 2: Earth Rocks! Topic(s): relative dating fossils Activities: fossil specimens, group discussion, group brainstorm, pre assessment</p>	<p>9/29 Unit 2: Earth Rocks! Topic(s): relative dating fossils Activities: relative dating online article and worksheet - online activity</p>	<p>9/30 Unit 2: Earth Rocks! Topic(s): relative dating fossils Activities: LAB: Making Fossils</p>	<p>10/1 Unit 2: Earth Rocks! Topic(s): relative dating fossils Activities: Fossil Photo Find - online activity</p>	<p>10/2 Unit 2: Earth Rocks! Topic(s): relative dating fossils Activities: Dating/Fossils QUIZ Turn in week 6 work: Relative Dating: DUE Fossil Photos DUE</p>

October 2020

**Fall Break: October 5th-9th*

Week	Monday	Tuesday	Wednesday	Thursday	Friday
7	<p>10/12 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: group discussion, pre assessment, Cookies Rock!</p>	<p>10/13 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Rock Types Study - online activity</p>	<p>10/14 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: LAB: Rock Hounding - walking field trip</p>	<p>10/15 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Reno Gem & Mineral Society - online activity</p>	<p>10/16: End Quarter 1 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Turn in week 7 work: Rock Types: DUE Reno G & M: DUE</p>
8	<p>10/19 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: LAB: Specimen Collections Malleability Testing</p>	<p>10/20 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Nevada Mining Industry Research - online activity</p>	<p>10/21 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Humans use Rocks - Group Mindmap LAB: Tools that Rock!</p>	<p>10/22 Unit 2: Earth Rocks! Topic(s): minerals rock cycle</p> <p>Activities: Rock Cycle Raps and Rhymes - online activity</p>	<p>10/23 Unit 2: Earth Rocks! Topic(s): all in Unit 2</p> <p>Activities: Rock & Minerals QUIZ Turn in week 8 work: Nevada Mining: DUE Rock Rhymes: DUE</p>
9	<p>10/26 Unit 2: Earth Rocks! Topic(s): all in Unit 2</p> <p>Activities: Unit 2 review Unit 2 study guide</p>	<p>10/27 Unit 2: Earth Rocks! Topic(s): all in Unit 2</p> <p>Activities: Google Meet Support Unit 2 study guide DUE</p>	<p>10/28 Unit 2: Earth Rocks! Topic(s): all in Unit 2</p> <p>Activities: Unit 2: Earth Rocks! TEST</p>	<p>10/29 Unit 2: Earth Rocks! Topic(s): all in Unit 2 Activities: Google Meet Support *All last chance late assignments DUE</p>	<p>10/30 Nevada Day No School</p>

November 2020

*Thanksgiving Break: November 25th- 27th

Week	Monday	Tuesday	Wednesday	Thursday	Friday
10	11/2 Unit 3: Stars Topic(s): Our Star: The Sun Activities: Videos w/ discussion, pre assessment	11/3 Professional Development Day	11/4 Unit 3: Stars Topic(s): Our Star: The Sun Activities: LAB: Reasons for the Seasons	11/5 Unit 3: Stars Topic(s): Our Star: The Sun Activities: Explore The Sun - online activity	11/6 Unit 3: Stars Topic(s): Our Star: The Sun Activities: Turn in week 10 work: Explore the Sun: DUE
11	11/9 Unit 3: Stars Topic(s): stars Activities: LAB: Constellation Skit	11/10 Veteran's Day No School	11/11 Unit 3: Stars Topic(s): stars Activities: Field Trip (virtual?) Planetarium	11/12 Unit 3: Stars Topic(s): stars Activities: Meet a Star Short Report - online	11/13 Unit 3: Stars Topic(s): stars Activities: Stars and Sun QUIZ Meet a Star: DUE
12	11/16 Unit 3: Stars Topic(s): galaxies The Big Bang Activities: Videos group brainstorm, Journal write pre-assessment	11/17 Unit 3: Stars Topic(s): galaxies The Big Bang Activities: The Big Bang Theory - online activity	11/18 Unit 3: Stars Topic(s): galaxies The Big Bang Activities: Lab: Expanding Universe	11/19 Unit 3: Stars Topic(s): galaxies The Big Bang Activities: Milky Way - online activity	11/20 Unit 3: Stars Topic(s): galaxies The Big Bang Activities: Turn in week 12 work: Big Bang Theory: DUE Milky Way: DUE
13	11/23 Unit 3: Stars Topic(s): Solar System Activities: Videos w/ discussion, pre assessment	11/24 Unit 3: Stars Topic(s): Solar System Activities: Encompass Stars - project proposals DUE - online activity	11/25 No School	11/26 Thanksgiving No School	11/27 No School

December 2020

**Winter Break: December 21st- January 1st*

Week	Monday	Tuesday	Wednesday	Thursday	Friday
14	<p>11/30 Unit 3: Stars</p> <p>Topic(s): Solar System</p> <p>Activities: LAB: Life on Mars Size & Mass of Planets</p>	<p>12/1 Unit 3: Stars</p> <p>Topic(s): Solar System</p> <p>Activities: Encompass Stars - project progress DUE - online activity</p>	<p>12/2 Unit 3: Stars</p> <p>Topic(s): Solar System</p> <p>Activities: LAB: Encompass Stars - workshop</p>	<p>12/3 Unit 3: Stars</p> <p>Topic(s):Solar System</p> <p>Activities: Encompass Stars - project progress DUE -online activity</p>	<p>12/4 Unit 3: Stars</p> <p>Topic(s):Solar System</p> <p>Activities: Encompass Stars - project progress DUE -online activity</p>
15	<p>12/7 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: LAB: Encompass Stars - workshop</p>	<p>12/8 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Encompass Stars - rough projects DUE - online activity</p>	<p>12/9 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Encompass Stars Class Preview Unit 3: Study Guide</p>	<p>12/10 Unit 3: Stars</p> <p>Topic(s):all in Unit 3</p> <p>Activities: Encompass Stars - FINAL projects DUE - online activity</p>	<p>12/11 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Encompass Stars - FINAL projects -view and comment</p>
16	<p>12/14 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Unit 3 review Unit 3 study guide</p>	<p>12/15 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Google Meet Support Unit 3 study guide DUE</p>	<p>12/16 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Unit 3: Stars TEST</p>	<p>12/17:End Quarter 2 Unit 3: Stars</p> <p>Topic(s): all in Unit 3</p> <p>Activities: Google Meet Support *All last chance late assignments DUE</p>	<p>12/18 Professional Development Day</p>