

## MODESTO CITY SCHOOLS COURSE OUTLINE

<b>Course Title</b>	Comprehensive Science II JH OLL	
<b>Course Number</b>	OLL (S1)	OLL (S2)
<b>Recommended Grade</b>	<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12	
<b>Duration</b>	<input type="checkbox"/> Quarter <input checked="" type="checkbox"/> Semester	
<b>Credit</b>	<input type="checkbox"/> 2.5 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 10	
<b>Repeatable for Credit</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Required for Graduation</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Meets Graduation Requirement</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>CALPADS Course Number</b>		
<b>CALPADS Course Name</b>		
<b>Meets UC/CSU Requirements</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, which area? <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G N/A	
<b>CTE Course</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>CTE Course Level</b>	<input type="checkbox"/> Introduction <input type="checkbox"/> Concentrator <input type="checkbox"/> Capstone N/A	
<b>Part of a Course Pathway</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, which pathway?	
<b>Credential Requirements</b>		
<b>Replaces</b>	N/A	
<b>Recommended Prerequisites</b>	N/A	
<b>Aligned to Standards Date</b>		
<b>Content Delivery Method</b>	<input type="checkbox"/> Instructor Led <input checked="" type="checkbox"/> Online Provider Modesto Virtual Academy	
<b>Other Information</b>		
<b>Board Approval Date</b>		
<b>Implementation Date</b>	Fall 2020	

**Course Description:**

**Required Text(s):** (Title, Publisher, Year):

**Supplementary Materials(s):**



**Course Name:** Middle School Comprehensive Science II v18 (GS)

**Course Credit:** 1.0

**Course Estimated Completion Time:** 28-32 weeks

**Course Description:** Middle School Comprehensive Science II is a comprehensive science including the disciplines of life science, physical science, and earth space science in addition to, technology, engineering and mathematics (STEM) concepts. The course is designed for middle school students. The lessons provide real world connections through the application of STEM problem solving, science knowledge and engineering practices. Laboratory investigations are included throughout the course and provide students opportunities for exploration through scientific inquiry, research, measurement, problem solving, and experimental procedures.

**Prerequisites:** Middle School Comprehensive Science I recommended

**Honors Lessons:** Yes

**Course Profile (Includes Honors, if applicable)**

Type of Assessment	Quantity	Location(s)
Teacher-graded	14	01.03, 01.04, 01.05, 01.06, 02.01, 02.02, 02.04, 02.05A, 02.06, 03.03, 03.05, 04.02A, 04.03, 04.04, 04.05, 05.01, 05.02, 05.03, 05.05, 06.01, 06.02, 06.04, 06.05
Auto-graded	13	01.01, 01.02, 01.07, 02.03, 02.07, 03.01, 03.02, 03.04, 03.06, 04.01, 04.06, 05.04, 05.06, 06.03, 06.06
Partial Auto-graded	2	03.07, 06.07
Discussion-Based (DBA)	6	01.06, 02.06, 03.05, 04.05, 05.05, and 06.05.
Collaboration	2	
Project-based	0	
<b>Total Assessments</b>	<b>29</b>	

**Types of Assessments (Includes Honors, if applicable)**

Type of Assessment	Available	Type of Assessment	Available
Multiple Choice	Yes	Essay	Yes
Worksheets	Yes	Collaborative	Yes
Web 2.0	Yes	Short Response	Yes
Project - Based		Labs	Yes
Self - Check	Yes	DBAs	Yes

## Scope and Sequence

### SEGMENT 1

#### Module 01—Matter and Energy

- Balance Within Ecosystems
- Food Chains and Food Webs
- Classification
- Energy Forms and Energy Transfer
- Conservation of Energy
- Advanced Thermal Energy
- Scientific Models

#### Module 02—Interdependence of Life

- Biological Interactions
- Limiting Factors
- Theories and Laws
- Evolution—Natural Selection
- Advanced Natural Selection— Inherited Variation, Competition, Differential Reproductive Success

#### Module 03—The Earth

- Geologic Age
- Relative Dating and Radioactive Dating
- Layers of the Earth
- Plate Tectonics
- Advanced Tectonic Plate Interactions

### SEGMENT 2

#### Module 04—Patterns of Change

- Rock Types
- The Rock Cycle
- Advanced Landforms
- Convection Currents
- Geologic Events
- Renewable and Nonrenewable Resources
- Human Impact on Earth, Air Quality, and Water Quality

#### Module 05—Energy Resources

- Electromagnetic Spectrum

- Properties of Light
- Phases of Matter
- Biodiversity
- Environmental Adaptations

#### Module 06—Heredity and Genetics

- Biotechnology
- Heredity
- Punnett Square
- Pedigree Chart
- Mitosis and Meiosis