

Comprehensive Science 3 ADVANCED (2002110)

****Nature of Science standards are to be woven throughout all lessons.**

5 Question Reviews Daily.**

Students will be actively engaged in the following ways:

- Quantitative and qualitative observations
- Investigation of thoughtful questions
- Design and conduct experiments and other types of investigations
- Collect and organize data
- Make logical predictions and offer reasonable explanations
- Explore possible conclusions
- Communicate their understanding

[CPALMS STUDENT TUTORIALS, RESOURCES,
BREAKDOWN OF STANDARDS](#)

Semester 1	Semester 2
<hr/> <p>Week 1: Classroom Environment and Culture Building:</p> <hr/> <p style="text-align: center;">Unit 1</p> <p>Nature of Science <i>SC.8.N.1.1, SC.7.N.1.3, SC.7.N.1.2, SC.7.N.1.5, SC.6.N.2.2,</i></p> <p><u>Lab Safety and Inquiry</u>: <i>SC.8.N.1.1. (2 Weeks and Throughout the Year)</i></p> <p>All students must read through lab safety rules and obtain a signed permission slip. Beginning labs start with inquiry, how to keep a proper notebook, and expectations of labs. Intro: <u>Scientific Experiments</u>. Scientific Knowledge.</p> <hr/> <p style="text-align: center;">PROGRESS MONITORING WINDOW</p> <hr/> <p style="text-align: center;">Unit 2 Earth & Space Science (4 Weeks plus review)</p> <p><u>The Objects in Our Solar System</u> <i>SC.8.E.5.7</i> <u>The Effects of Earth's Moon on Earth</u> <i>SC.8.5.9</i> <u>Relative Positions of the Sun, Earth, and Moon</u> <i>SC.8.E.5.9</i> <u>Properties of Stars</u> <i>SC.8.E.5.5</i> <u>Understanding Distances in Space</u> <i>SC.8.E.5.3</i></p> <hr/> <p style="text-align: center;">Unit 3 Earth & Space Science (4 Weeks plus Review)</p> <p>Theories of Earth's Evolution <i>SC.7.E.6.4</i> Theory of Plate Tectonics <i>SC.7.E.6.5</i>, Plate Tectonics <i>SC.7.6.2</i> Earth's Spheres <i>SC.6.E.7.4</i> Heat Transfer, Convection, Conduction, Radiation and the Sun's Influence <i>SC.6.E.7.5</i></p> <hr/> <p style="text-align: center;">Unit 3 Physical Science (6 weeks plus review)</p> <p>Density <i>SC.8.P.8.4</i> <u>The Periodic Table of Elements</u> <i>SC.8.P. 8.6</i></p> <hr/> <p style="text-align: center;">PROGRESS MONITORING WINDOW</p> <hr/> <p style="text-align: center;">Winter Break</p>	<hr/> <p><u>Common Compounds</u> <i>SC.8.P.8.5</i> <u>Identifying Mixtures</u> <i>SC.8.P.8.4</i> Comparing Physical and Chemical Changes <i>SC.8.P.9.2</i> The Law of Conservation of Mass <i>SC.8.P.9.1</i> Temperature and Changes in Matter <i>SC.8.P.8.1, SC.8.P.9.2</i> Acids, Bases, and Salts <i>SC.8.P.8.8</i></p> <hr/> <p style="text-align: center;">Unit 4 Physical Science (4 Weeks plus review)</p> <p>Forms of Energy <i>SC.7.P.10.3</i>, Energy Transfer and Transformations <i>SC.7.P.11.2</i> Law of Conservation of Energy <i>SC.6.P.11.1, SC.7.P.11.3</i> Heat Flow <i>SC.7.P.11.4</i>, Friction, Gravitational Force <i>SC.6.P.13.1</i> Balanced/Unbalanced Forces <i>SC.6.P.13.3</i></p> <hr/> <p style="text-align: center;">Unit 5 Life (6 Weeks plus review)</p> <p>Chemical Changes and Balance in Living Systems <i>SC.8.L.18.4</i> Structural Organization <i>SC.6.L.14.1</i> Cell Theory <i>SC.6.L.14.2</i> Structure and Function of Organelles <i>SC.6.L.14.4</i> Major Systems of the Body <i>SC.6.L.14.5</i> Theory of Evolution <i>SC.7.L.15.2, SC.7.L.15.1</i> Hereditary Information <i>SC.7.L.16.1</i> Relationships Among Organisms <i>SC.7.L.17.2</i></p> <hr/> <p style="text-align: center;"><u>CPALMS STUDENT TUTORIALS</u></p> <hr/> <p style="text-align: center;">Mini Lesson Reviews of Life Science</p> <hr/> <p style="text-align: center;">Mini Lesson Reviews of Physical Science</p> <hr/> <p style="text-align: center;">Mini Lesson Reviews of Nature of Science</p> <hr/> <p style="text-align: center;">Mini Lesson Reviews of Earth Science</p> <hr/> <p style="text-align: center;">Datafolios</p> <hr/> <p style="text-align: center;">PROGRESS MONITORING WINDOW</p>
