

## Integrated Science 9

Month	Content and Essential Questions	Skills	Assessment	Resources
August	<p>Introduction to Science S: 1.2, 1.3, 1.4, 1.6, 5.2, 5.4, 5.5, 5.6, 5.7</p> <p>1. Nature of Science How does science take place? What are scientific laws and theories?</p> <p>2. The way science works What are the basic science skills? How to use units of measurement with conversions.</p> <p>3. Organizing data Presenting scientific data. Scientific notation. Significant figures</p>	<p>Describe the main branches of natural science and relate them to each other. Describe the relationship between science and technology. Distinguish between scientific laws and scientific theories. Explain the roles of models and mathematics in scientific theories and laws.</p> <p>Understand how to use critical thinking skills to solve problems. Describe the steps of the scientific method. Know some of the tools scientists use to investigate nature. Explain the objective of a consistent system of units of measurement, and know the common SI prefixes for length, mass, and time. Identify what each common SI prefix, and be able to units of measurement.</p> <p>Interpret line graphs, bar graphs, and pie charts. Use scientific notation and significant figures in problem-solving. Identify significant figures in calculations. Understand the difference between precision and accuracy.</p>	<p>Worksheets vocabulary, section review, worksheets.</p> <p>vocabulary, section review, worksheets, math review.</p> <p>Mr. Rench's "Dot Lab", math review, vocabulary, section review, graphing skills lab, making measurements lab.</p> <p>Chapter review (including standardized test prep.</p> <p>Chapter test.</p>	<p>Holt Resources:</p> <p>One-Stop test generator CD.</p> <p>Visual Concepts (instructional graphics, animations, movie clips.</p> <p>Guided Reading Audio CD Program.</p> <p>Integration and enrichment resources (book).</p> <p>Chapter Resource File: Laboratory Experiments and TE. Basic Skills Worksheets. Math Skills Worksheets.</p> <p>Teaching Transparencies.</p>
September	<p>Matter S: 1.2, 1.3, 1.4, 1.6, 2.1, 2.3</p> <p>1. What is Matter? Composition of matter. Pure substances and mixtures.</p>	<p>Explain the relationship between matter, atoms, and elements. Distinguish between elements and compounds. Describe molecules and how they are formed. Interpret and write common chemical</p>	<p>Vocabulary, worksheets, section review.</p>	<p>Holt Resources:</p> <p>One-Stop test generator CD.</p> <p>Visual Concepts (instructional graphics, animations, movie clips.</p>