

**Century Middle School  
Course Syllabus  
2009-2010**

<b>Course Title: 8<sup>th</sup> Grade Science</b>	<b>Instructor Name: Debbie Brown</b>
	<b>e-mail: <a href="mailto:Deborah.brown@adams12.org">Deborah.brown@adams12.org</a></b>
<b>Class grading criteria and project particulars on science expectations letter and included with each project.</b>	<b>Phone: 720-972-3287</b>
	Ms. Brown is available <b><u>by appointment</u></b>

<b>Essential Learning Standards/Content Covered</b>	<b>Approximate Dates/Timeline or Percent of Time Spent</b>
<b>1. Safety</b> - Safety contract, safety poster, introduction to equipment and quiz	<b>1 week</b>
<b>2. Scientific Investigation</b> - Lab procedures and written lab reports	<b>On going throughout the year</b>
<b>3. Properties of Matter</b> - What is matter? - Phases of matter - Physical and chemical properties of matter - Density - Law of Conservation of Mass - Separating Mixtures - District Assessment	<b>8 weeks</b>
<b>4. Classification of Matter</b> - What is matter? - Atomic structure - Elements, compounds and mixtures - Periodic Table	<b>4 weeks</b>
<b>5. Electricity, Waves and Light</b> - Series and parallel circuits - Electron flow - ROYGBIV - Relationships between wavelengths and energy	<b>3 week</b>
<b>6. Energy</b> - Forms of energy - Energy transformations - Law of Conservation of Energy - Kinetic and potential energy	<b>4 weeks</b>
<b>7. Forces and Motion</b> - Speed, Velocity - Motion graphs - Forces and Systems - Newton's Laws - Types of Forces - Mass vs. Weight - District Assessment	<b>8 weeks</b>
<b>8. CSAP Review</b> - CSAP Coach book to review 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> grade science curriculum	<b>4 weeks</b>

