

**8<sup>th</sup> Grade AP Science Curriculum (will continue to be updated throughout the 2015-2016 school year)**

<b>Concept</b>	<b>Content</b>	<b>SEP</b>	<b>Assessment</b>	<b>Standard</b>
From Molecules to Organisms: Structures and Process	<ul style="list-style-type: none"> <li>● cell structure</li> <li>● cell functions                             <ul style="list-style-type: none"> <li>○ diffusion</li> <li>○ osmosis</li> <li>○ cellular respiration</li> <li>○ photosynthesis</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● analyzing and interpreting data</li> <li>● plan and carry out investigations</li> <li>● develop and use models</li> </ul>	<ul style="list-style-type: none"> <li>● test/quizzes</li> <li>● labs/student directed investigations</li> <li>● diffusion and osmosis models</li> <li>● respiration model</li> <li>● photosynthesis model</li> <li>● discussions/feedback</li> </ul>	<p>Middle School</p> <ul style="list-style-type: none"> <li>● MS LS1 – 1</li> <li>● MS LS1 – 2</li> <li>● MS LS1 – 6</li> <li>● MS LS1 – 7</li> </ul> <p>High School</p> <ul style="list-style-type: none"> <li>● HS LS1 – 3</li> <li>● HS LS1 – 5</li> <li>● HS LS1 – 7</li> </ul>

*For more information on Science and Engineering Practices:*

<http://www.nextgenscience.org/sites/ngss/files/Appendix%20F%20%20Science%20and%20Engineering%20Practices%20in%20the%20ONGSS%20-%20FINAL%20060513.pdf>

*For more information on the Next Generation Science Standards:*

*Middle School:*

<http://www.nextgenscience.org/msls1-molecules-organisms-structures-processes>

*High School:*

<http://www.nextgenscience.org/hsls1-molecules-organisms-structures-processes>