

New York State Student Learning Objective: Regents Chemistry/Grade 11

All SLOs MUST include the following basic components:

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| Population | <p><i>These are the students assigned to the course section(s) in this SLO - all students who are assigned to the course section(s) must be included in the SLO. (Full class rosters of all students must be provided for all included course sections.)</i></p> <p>Three sections of Regents Chemistry students, grouped heterogeneously (75 total students)</p> |
| Learning Content | <p><i>What is being taught over the instructional period covered? Common Core/National/State standards? Will this goal apply to all standards applicable to a course or just to specific priority standards?</i></p> <p>New York State Physical Setting/Chemistry Standards:</p> <p>Standard 1: Analysis, Inquiry, and Design: Students will use mathematical analysis, scientific inquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.</p> <p>Standard 2: Information Systems: Students will access, generate, process, and transfer information using appropriate technologies.</p> <p>Standard 4: The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.</p> <p>Standard 6: Interconnectedness: Common Themes: Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.</p> <p>Standard 7: Interdisciplinary Problem Solving: Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.</p> |
| Interval of Instructional Time | <p><i>What is the instructional period covered (if not a year, rationale for semester/quarter/etc)?</i></p> <p>2012-2013 School Year</p> |
| Evidence | <p><i>What specific assessment(s) will be used to measure this goal? The assessment must align to the learning content of the course.</i></p> <ol style="list-style-type: none"> 1. District-wide diagnostic assessment (District-created pre-assessment that is based on physical science/chemistry questions from the New York State Grade 8 Intermediate-Level Science Test, along with mathematics concepts utilized during the course), which will be administered at the beginning of the school year. 2. New York State Physical Setting/Chemistry Regents Exam will be used as the summative assessment. |

| Baseline | <p>What is the starting level of students' knowledge of the learning content at the beginning of the instructional period?</p> <ol style="list-style-type: none"> 1. 97% of students* passed the Living Environment and 92% of students* passed the Geometry Regents Exams from the previous school year. 2. On the diagnostic assessment, students scored an average of 70% * on basic principles of Chemistry and mathematics. (* %ages to be determined from the specific student population and diagnostic pre-assessment) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Target(s) | <p>What is the expected outcome (target) of students' level of knowledge of the learning content at the end of the instructional period?</p> <p>The expected outcome is that 70% of students will score a 65% or higher on the Physical Setting/Chemistry Regents Exam at the conclusion of the course.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEDI Scoring | <p>How will evaluators determine what range of student performance "meets" the goal (effective) versus "well-below" (ineffective), "below" (developing), and "well-above" (highly effective)?</p> <table border="1" data-bbox="363 816 2016 1060"> <thead> <tr> <th colspan="3">HIGHLY EFFECTIVE</th> <th colspan="9">EFFECTIVE</th> <th colspan="5">DEVELOPING</th> <th colspan="3">INEFFECTIVE</th> </tr> </thead> <tbody> <tr> <td>20</td><td>19</td><td>18</td> <td>17</td><td>16</td><td>15</td><td>14</td><td><u>13</u></td><td>12</td><td>11</td><td>10</td><td>9</td> <td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td> <td>2</td><td>1</td><td>0</td> </tr> <tr> <td>96-100 %</td><td>92-95%</td><td>87-91%</td> <td>83-86%</td><td>80-82%</td><td>76-79%</td><td>72-75%</td><td>69-71%</td><td>70-67%</td><td>66-63%</td><td>62-59%</td><td>58-55%</td> <td>54-51%</td><td>50-47%</td><td>46-43%</td><td>42-39%</td><td>38-35%</td><td>34-31%</td> <td>30-27%</td><td>26-23%</td><td><22 %</td> </tr> </tbody> </table> | HIGHLY EFFECTIVE | | | EFFECTIVE | | | | | | | | | DEVELOPING | | | | | INEFFECTIVE | | | 20 | 19 | 18 | 17 | 16 | 15 | 14 | <u>13</u> | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 96-100 % | 92-95% | 87-91% | 83-86% | 80-82% | 76-79% | 72-75% | 69-71% | 70-67% | 66-63% | 62-59% | 58-55% | 54-51% | 50-47% | 46-43% | 42-39% | 38-35% | 34-31% | 30-27% | 26-23% | <22 % |
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| 20 | 19 | 18 | 17 | 16 | 15 | 14 | <u>13</u> | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96-100 % | 92-95% | 87-91% | 83-86% | 80-82% | 76-79% | 72-75% | 69-71% | 70-67% | 66-63% | 62-59% | 58-55% | 54-51% | 50-47% | 46-43% | 42-39% | 38-35% | 34-31% | 30-27% | 26-23% | <22 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rationale | <p>Describe the reasoning behind the choices regarding learning content, evidence, and target and how they will be used together to prepare students for future growth and development in subsequent grades/courses, as well as college and career readiness.</p> <p>The diagnostic assessment used, was one that determined the mathematical and basic content-specific knowledge of current students. Solving algebraic equations is a key skill to have mastered in order to have success in this course. Furthermore, many basic Chemistry-related concepts were taught in the intermediate years (Grades 5-8) of the students' schooling. Therefore, the diagnostic exam used was appropriate.</p> <p>According to the School Report Card, 67-70% of students have scored a 65% or higher on the Regents Chemistry Exam. Increasing the number of students who score a minimum of a 65% is a department-wide goal, The HEDI scoring grid should be adjusted using the baseline information.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The document above was created by Michael Baroody, Joanne Keim, and Michael Foster.

April 11, 2012