

# Chemistry Lab Presentation

Objective	After having gone through an extensive section on antioxidants and their presence in our food, students should be able to use data from their research labs to create presentation to present their research to the professor. It should include a chart from Chartle.net.
Standards	<p>C 1.2 Determine the properties and quantities of matter such as mass, volume, temperature, density, melting point, boiling point, conductivity, solubility, color, numbers of moles, and pH (calculate pH from the hydrogen-ion concentration), and designate these properties as either extensive or intensive</p> <p>C 1.7 Use appropriate nomenclature when naming compounds.</p> <p>C 1.8 Use formulas and laboratory investigations to classify substances as metal or nonmetal, ionic or molecular, acid or base, and organic or inorganic</p> <p>C 1.9 Describe chemical reactions with balanced chemical equations</p> <p>C 1.23 Write a rate law for a chemical reaction using experimental data</p> <p>C 1.27 Describe chemical changes and reactions using sketches and descriptions of the reactants and products</p> <p>C 1.42 Describe that the energy release per gram of material is much larger in nuclear fusion or fission reactions than in chemical reactions. The change in mass (calculated by <math>E=mc^2</math>) is small but significant in nuclear reactions</p>
Material	For this assignment students will need the data from their research labs, access to a computer, and creativity. Possibly some paper and a writing utensil would come in handy as well.
Procedure	<ol style="list-style-type: none"><li>1. Over the course of 1 class period, review with students what they learned during their research labs about antioxidants in food.</li><li>2. Explain to them that they will be expected to make a</li></ol>

	<p>research poster explaining their findings and that it must include a chart from Chartle.net. Also, make it clear that they will be expected to give a presentation to the class coordinator/professor.</p> <ol style="list-style-type: none"> <li>3. Briefly show the class how to use Chartle.net.</li> <li>4. Allow them 2-3 weeks to work on their research posters and touch base with them via email and especially in lab and recitation. Solve any problems that may arise and give help to the students.</li> <li>5. Have the students turn in a rough-draft to you roughly 1.5 weeks before the due date so you can give constructive feedback.</li> <li>6. Allow time during office-hours to let students practice giving their presentations to you so you can critique it.</li> <li>7. On the assigned day, students will turn in their posters and give their presentation to the professor.</li> </ol>
Evaluation	Students will be expected present their research to the professor and will be graded for their efforts.