

Category Requirements – 30%	
20 pts.	<p>Lesson Plan (8- 12 pages) for a 40-50 minute Class Period</p> <p>Goals What do you want your students to learn from this lesson? What are the “Essential Understandings” that they should walk away with? What concepts of biotechnology or biomedicine are being addressed? Which WA State EALRS and GLEs are being addressed? http://www.k12.wa.us/CurriculumInstruct/EALR_GLE.aspx To whom will this information be important, and why?</p> <p>Content What science content will your students learn? What question will your students answer (or what problem will they solve)? What lab, if any, will you use to teach your lesson? Have you done this lesson/lab in your class? What lab protocol, if any, will you use? How will you modify the protocol to deliver this lesson in the time allotted?</p> <p>Audience Who is your intended audience? What content and skills background do they have?</p> <p>Assessment How will you check to see if your students understand you at several points during the lesson? How will you determine that your goals were met?</p> <p>Background Planning Set up and organization of materials Clean up and securing of materials</p> <p>Teaching Outline for Delivery of Lesson (with time estimates) What will you be doing? What will students be doing? Clear introduction of self, goals, and purpose Student involvement and participation throughout lesson Student analysis, conclusion, and discussion</p> <p>Reflection Reflect on your lesson planning strategies, and the process of developing and teaching a lesson Provide a record of evaluation of your practice lessons by self, peers, and teachers Include a record of strong point of the lesson to be kept, and areas to further develop in the future</p> <p>Handouts and Visuals/Illustrations used (not included in 10 page limit)</p>
10 pts.	<p>Video/DVD The video should be 30 minutes maximum in length. A shorter “Lesson Highlights” video is also acceptable. The videotape will be evaluated for clarity of communication with audience, evidence of lesson preparation, and audience engagement. An audience of at least 5 people must be present for the taping-session so that participation is evident. Please upload your video(s) to www.youtube.com <http://www.youtube.com/> according to the instructions on the "General Guidelines" page</p>

Science Content- 20%	
20 pts.	<p>Science Content Understanding The Lesson Plan (see "Category Requirements", above) should demonstrate a mastery of relevant scientific ideas by accurately explaining difficult concepts. It should show a clear, organized pattern of thinking and provide logical and analytical reasoning. The content of your work should reflect critical thinking about the topic.</p>

Use of Resources and General Written Requirements - 20%	
10 pts.	<p>Effort in Use of Resources Include 1-2 typed pages describing the resource(s) you put the most effort into using. More weight is given in judging to those students who put more effort into locating and using available resources. A good use of resources may include working with an advisor or mentor, making arrangements to tour a company, interviewing an adult in your field, or other sources. What did you learn? How did this resource help you? An interview with an adult in the field carries far more weight than a Google search.</p> <p>If a qualified adult (i.e your Expo Advisor or Mentor, someone you interviewed or a tour guide at site visit) significantly helped you with your project, please include:</p> <ol style="list-style-type: none"> The person's name, title and contact information. Dates you emailed, talked on the phone or met. Your thoughtful reflections on the experience of working with that person.
5 pts.	<p>Paper Format Provide a typed Cover Sheet including name, title, category, teacher, grade level, school, and date. Papers should be typed/word processed on white letter-sized paper, with one-inch margins. Use an easily readable font such as Times Roman or Arial, 10-12 point, double-spaced. If included, illustrations must be neat and applicable, with a title and a source. Number your pages and label section headings. Consistently follow the rules of Standard English for usage, spelling, capitalization, and punctuation. If you are using Windows <i>Vista</i>, please use the 'save as' function to save your paper as a "Word 97-2003 Document".</p>
5 pts.	<p>Annotated bibliography in standard MLA or APA format Use a minimum of 5 sources (3 must be non-internet sources). Journals published in hard copy as well as online can count as non-internet sources. For each source, provide one reason why you believe the source is credible and describe how it was used in your project.</p>

Creativity -- 10%	
10 pts.	<p>Creativity Show your ability to creatively approach teaching your topic. Your plan should reflect your special insights and abilities to teach scientific content using engaging teaching strategies.</p>

Poster/Interview at Expo Event - 20%	
10 pts.	<p>Poster Posters should convey important information about your project in a visually appealing manner. Displays and models must be freestanding and have the following maximum dimensions: 4 feet width, 2.5 feet depth, and 3 feet height (from table).</p>
10 pts.	<p>Interview/Presentation- 10% <i>Judges will be looking at your effectiveness in communicating your project to them, and your understanding of your topic.</i></p> <p>Your judge will want an overview of your project - practice giving a short (2-3-minute) 'walk-through' of your project that explains it in straightforward terms. You will receive written feedback from your judge regarding the strengths of your project, and how you could make it even better in the future.</p>

	<i>The following are samples of the types of additional questions a judge might ask you: Why were you interested in this topic? What did you learn from doing your project? What was the most enjoyable/difficult aspect of doing this project? What else would you like to find out about this topic?</i>
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100 points total

What you need to submit for the Expo Prejudging
Due April 17, 2009

- Cover Sheet, with the URL of your YouTube video clearly listed**
- Lesson Plan and any handouts for your lesson**
- Bibliography + description of Effort in use of Resources**

- Provide one hard copy and one electronic copy.*
- Please combine your files into a single Word PC File or PDF.*

- Label your file TE_SchoolAbbreviation_LastName
Example = TE_BA_Smith (note that there are no spaces, only underscores, in the file name). Check with your teacher for school abbreviations.

What you need to bring to the Expo
Due May 27, 2009

- Cover Sheet**
- Lesson Plan and any handouts for your lesson**
- Bibliography + description of Effort in use of Resources**
- Poster**
- A copy of your video or DVD**
- Any electrical or AV equipment you may need**