

Materials Demo Project

Each student will develop a materials science demonstration which will be performed in the classroom. The last week of class (December 6 and December 8) has been set aside for these demonstrations to be performed. However, students may arrange with the instructor to present their demonstration earlier in the semester, at the beginning or end of a class lecture. This project counts as 30% of the course grade.

Each demonstration should include a transcript of the complete speech during the demonstration, a listing of materials used (including the source and cost to purchase the same materials), and detailed directions on how to prepare for and perform the demonstration. The demonstrations should be educational in nature and include a clear set of learning objectives, background/context, list any hazards, and include appropriate references.

The grading rubric is shown below:

Grading Topic	Points Earned	Points Possible
Organization of Presentation During Demonstration The type of presentation during the demo is appropriate; information is presented in a logical sequence.		20
Content and Creativity of Demonstration Demonstration is attention-getting, appropriate for target audience, contains accurate information, is relevant to materials science, and contains a clear conclusion summarizing the demo.		30
Quality of Delivery Delivery is poised, clear, and appropriately animated. Materials/props are well prepared, informative, effective. Information is well communicated		20
Write-up Quality of the written report, which should include the title, objectives, materials used, procedures, explanation, hazards, references, and complete transcript of the presentation. The goal of the write-up is to make it easy for anyone to repeat your demo		30
Total		100

To prevent multiple people choosing the same, or very similar demonstrations, each topic needs to be approved by Professor Kessler. Once approved, the topic will be added to the course website (<https://kessler.wsu.edu/mse-110-intro-to-materials-science/>).