

# FERMI PROJECT RUBRIC

	POINTS POSSIBLE	POINTS RECEIVED	COMMENTS
<p style="text-align: center;"><b>Assumptions</b></p> <p>List and explain the reasonable assumptions that you made (or had to make) to answer your Fermi Question. Make sure you have REALLY thought this through. Remember: ALL questions must be answered, so make sure your group thought about this very carefully.</p>	15		
<p style="text-align: center;"><b>Pre-Research Plan/Process/Calculations</b></p> <p>Explain your plan (using guesses to be able to make calculations), show ALL the math work, and the process used to come up with your (rough) prediction. This should all be done BEFORE you do your research in the computer lab. Show all steps and have justifications...leave no question unanswered!!!!</p>	20		
<p style="text-align: center;"><b>Predictions (High and Low)</b></p> <p>Your calculations will lead you to a prediction concerning your Fermi question. Give a range of values (a low estimate and a high estimate) that you believe will correct in answering your Fermi question. Remember: This needs to be noted after your math plan and before your research.</p>	5		
<p style="text-align: center;"><b>Research</b></p> <p>You will go online and use REALIABLE sources and find information that will help support, change, (dis)prove, conclude, and/or justify your prediction. Also provide the websites used in your final answer.</p>	10		
<p style="text-align: center;"><b>New Calculations with researched values and information</b></p> <p>Explain your plan (using researched values to make calculations), show ALL the math work, and the process used to come up with your new prediction. This should all be done AFTER you do your research in the computer lab. Show all steps and have justifications...leave no question unanswered!!!!</p>	20		
<p style="text-align: center;"><b>Comparing your predictions</b></p> <p>Explain why your pre-research prediction was so (in)accurate compared to your post-research prediction. If your Fermi question can be answered just by typing it into Google, compare the two values. Give any other interesting information about your calculations and/or Fermi question</p>	10		
<p style="text-align: center;"><b>Presentation</b></p> <p>Know your topic in GREAT detail. Be prepared for ANY question. ALL students must share in the presentation and be professional.</p>	20		
<p style="text-align: center;"><b>Extra Credit</b></p> <p>Asking questions to a presenter that stumps them, or asking a really thought provoking question.</p>	DEPENDS		