***Going Public* Grant Proposal Worksheet**

Write a grant proposal to the U.S. National Institutes of Health outlining your research proposal for using nanoparticles to protect against, detect or treat skin cancer. The proposal requirements include the following:

* A clear explanation of why skin cancer is a noteworthy problem for funding.
* Calculations and lab data proving that UV radiation is indeed more energetic than visible light.
* A well-explained research proposal, including needed funding amount for a plan to use nanoparticles to prevent, detect and/or treat skin cancer.
* A professional proposal presentation that is typed and double spaced.
* The proposals will be reviewed by a group of your peers on the due date so be prepared to defend your proposal.

**Remember the unit’s *Grand Challenge Question*:**

*What does a UV index mean in terms of your potential skin cancer risk as a surfing enthusiast in Einstein Cove in Australia? How might you use your expertise in nanoparticles to protect against, detect and treat skin cancer?*

**Proposal due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grant Proposal Grading Rubric**

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| **Required Components** | **Maximum Point Value per Component** | **Objectives for Each Component** |
| **Title and grammar** | **15** | **Title correctly formatted and correct grammar throughout the document.** |
| **Skin cancer explanation and problem statement** | **20** | **The three types of skin cancer and the causes of skin cancer are explained in detail, presenting the reader with a clear understanding of the problem and its impact on public health.** |
| **Lab data and calculations** | **20** | **Data collected from the activities in this unit are presented and calculations shown, proving the energy levels of visible light, UVA and UVB radiation. It is emphasized that UVB has higher energy than UVA, and both are more energetic than visible light.** |
| **Explanation of nanoparticle research proposed** | **25** | **Explanation demonstrates a clear understanding of current uses of nanoparticles in either protecting against, detecting or treating skin cancer and why research in this field is important.** |
| **Presentation** | **10** | **Articulate and well explained to the class.** |
|  | **100** | **🡸 Maximum point value** |