



Unit 4 Chemical Man made Bonding Project Rubric

Name _____ Period _____

Objective: Students must research a man made chemical bonding topic.

Each of the six criteria below must be included in the project. Each criteria is worth a total of 10 points. Partial points may be given for incomplete work. Extra points may be given for going above and beyond the requirements listed below.

- _____ Introduction: *10 points*) Explain how chemical bonding works and why it matters (specific to your topic)
 A meaningful research question has been identified with your best possible solution, Product predictions are explained (hypothesis)
- _____ The research process (*10 points*) is explained Scientific process steps performed to address the question)
 All forms of data collected are included- Analysis included-
- _____ A visual and product is created or presented (*20 points*)
- 1- **Design and publish a digitally created visual graphic** such as an infographic, a digital poster, an interactive webpage, a digital 3D model, or a video that explores a specific man-made molecule of your choice and its structure. Your digital graphic must show thoughtful consideration of design, communication, and a viewer friendliness and should strategically utilize the benefits of the digital format you chose. There must be strong use of valuable scientific and statistical data (with correct citations) tat is communicated in an intriguing and thought-provoking format.
 - 2- **Build an interactive, physical 3D model** of a specific man-made molecule of your choice and annotate it with explanation of how its structure explains its properties. Your model must be unique in presentation and material, and it must be thoroughly annotated with explanations of its chemistry (including its molecular geometry, polarity, and impact). Your physical model must include strong evidence of research (with correct citations) as well as thoughtful consideration of design, communication and viewer friendliness
- _____ All references are cited. Identify future or further research (*10 points*)
- _____ Oral presentation is rendered (*10 points*)

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Project not turned in	A project was turned in but none of the six criteria above were included	Only 1 of the 6 criteria were included	Only 2 of the 6 criteria were included	Only 3 of the 6 criteria were included	Only 4 of the 6 criteria were included	Only 5 of the 6 criteria were included	All 6 criteria were included	Consideration was taken to go above and beyond the requirements for this project

