**Model Medicine Project**

For this project, you will be working with a partner of your choosing to build a scale model of a molecule that is used to treat a certain illness. You will also be giving an oral presentation to the class in addition to your 3D model. You will need to pick a partner who you know that you will work well with and be able to communicate with. You will be responsible for bringing the materials you need to make your model. I will have some materials but not all of them. It will be a first come first serve basis for the materials that I do have. Think of medicines that are common, such as Tylenol, Aspirin, Ibuprofen, Benadryl, and other medicines that you know of.

* Using the internet or an encyclopedia, determine the structure of a compound that interests you. Please use credible sources. Wikipedia is not a credible source.
* Using foam balls, toothpicks, water colors, string, and other materials, construct a model of the molecule.
* Describe and present your model to the class. Use the rubric below to prepare yourself.
* You will be making a model of your medicine as well as giving an oral presentation.
* For your oral presentation, pick one of the following ways to present your information:
  + Poster
  + Powerpoint
  + Prezi
  + YouTube Video
* In your oral presentation, you need to include…
  + Atomic structure of your model
  + What is your medicine used for
  + How did scientists develop your medicine
  + Is your medicine naturally occurring or man-made
  + Examples and visuals (pictures besides just your model)
  + How does the structure of your medicine help the medicine function
  + What would happen if the structure of your medicine changed? What are some implications if the structure of your medicine was changed?
  + What connections can you make between atomic structure and the structure of your medicine?

Rubric:

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| Content: | Delivery: |
| **Cooperation: 1 2 3 4 5**  (group works well together) | **Eye Contact: 1 2 3 4 5**  (looks at the audience, frequently includes entire audience) |
| **Organization: 1 2 3 4 5**  (group knows their content and who will present, is prepared with materials) | **Voice Control: 1 2 3 4 5**  (volume, rate/too quick or slow) |
| **Structure: 1 2 3 4 5**  (model is labeled, well-built) | **Physical Expression: 1 2 3 4 5**  (facial expressions, body language, facing audience) |
| **Information: 1 2 3 4 5**  (credible sources, reliable information, knowledge of content, answer questions, detailed explanations) | **Confidence: 1 2 3 4 5**  (knows material, how to present, good presence in front of the class) |