

Chemistry Project: Molecules That Matter

Directions:

What are the most important substances in our lives? Many people would come up with a different answer to that question. Your assignment is to find your answer to the question. You should limit your substance to materials that have come to prominent use since about 1600. You may not select water, oxygen or other simple substances required for general existence. When I began to think about this topic I thought of synthetic substances, but substances that occur in nature may be included. You are also not restricted to molecules specifically, ionic compounds are fine too.

You may choose a substance for very personal reasons (and if you do it is OK to have only me read the eighth slide of your presentation). You may choose a substance because it has become important to large numbers of people in society. Some ways to begin your thinking about this are:

What are some important substances in my life?

What issues that I've read about or discussed have important substances involved?

How about these larger topics:

- medicine and health
- food (agriculture, preservation and preparation) and nutrition
- lifestyle and recreation
- manufacturing

You will use Google Slides to make this presentation. We will complete a rough draft together in class. You must share your presentation with me on the Google Drive on the day we make the rough draft.

You are to:

- 1) Identify a substance that you feel is a very important substance in your life.
- 2) Register this substance with Mr. Andrews after school.
- 3) Present a convincing argument about why you feel that your substance is important to you.
- 4) Present a "profile" of the substance.

Google Slides Presentation:

Please present your information in the following order:

Slide One - Title Slide - Name of Compound, Your Name, Period Number. A picture of you and your compound.

Slide Two - Where does your substance come from? Describe and include a picture (could be a bottle of the chemical, a plant, a mine, a laboratory, wherever it comes from ...)

Slide Three - How is it made? Describe and include a chemical reaction. This may be difficult since some manufacturers maintain the secret of the synthesis of their proprietary chemicals. You may want to determine if you can find this information before selecting the compound.

Slide Four - Important physical and chemical properties. Make a list and be sure to classify whether it is physical or chemical. Include an appropriate image.

Slide Five - How is it used? Focus on the primary use of this substance and describe. Include an appropriate image.

Slide Six - An image of the chemical structural model. Also include the chemical formula.

Slide Seven - Detail your calculation of the molecular or formula mass. Include units and proper significant digits.

Slide Eight - A convincing argument about why this substance is important to you, not people in general, but you specifically.

Slide Nine - Annotated bibliographic information about your sources in APA format:

- 1.) complete name(s) of author(s) or write Unknown
- 2.) title of web page
- 3.) date you first accessed the information
- 4.) Internet address (make the URL a link)
- 5.) what information you obtained from this source

written as a complete sentence.

Grading: Your project will count as a 100 point test/project Grade for the fourth quarter and be graded on the following:

- a) Adhering to the listed details.
- b) Accuracy of the information presented.
- c) Creativity of your presentation.
- d) Convincing presentation.

The assignment is due at the beginning of the fourth quarter. See the class assignment page for the exact date.

Write due date here: _____

GOOD LUCK AND HAVE FUN!