

MHS Chemistry

Molecule Research Project (Extended, Independent)

Your job will be to research the substance assigned to determine specific information about it as well as find some surprises. You will assemble your information into a short formal report and a five-minute electronic presentation to share with the class.

My name is _____ and my compound is _____.

Definitely Find...

- What is the chemical formula or structure?
- Where does this substance come from chemically?
- Where does this substance come from geographically?
- What are some important properties of this substance?
- What does this substance do in nature?
- What do people do with this substance?
- What other importance may there be for this substance?
- How much of this substance is produced or used every year?

Surprise Us With...

...at least two other facts about this substance that aren't listed above, but *are* interesting. For instance, don't say "water is a colorless liquid" or "water can also form ice" - we already know that, and it's not interesting.

Here's **A List Of Advice For Your Research And Paper**. You can use it as a checklist if you want.

- You will be in the library March 17 and 18 to work on this. Any additional computer use is on your own time. Again: **any additional computer use is on your own time**.
- You must use at least three sources that (a) don't refer to each other and (b) are not Wikipedia and (c) are not all web pages.
- The presentations will be at the end of March or the beginning of April.
- The report is due by the end of the day Wednesday March 31 (day 3). MLA format, typed, with proper citations and a works cited page. Remember that all school rules about plagiarism apply, so don't just cut and paste! Aim for 3-5 pages of *single-spaced 12-point text*, with any pictures clearly referenced and included *at the end* of your report.

And, here's **A Similar List For Your Presentation**:

- Communicate ideas effectively - eye contact, good volume, be engaging, dress appropriately, no less than five minutes long and no more than ten.
- Be logically organized! Don't just list facts, and don't just read note-cards.
- Be relevant! Keep it related to the "Definitely find..." list (above).
- Use technology or other media to enhance your presentation. The key word here is "enhance" - don't let the technology distract from your compound.
- Be ready for questions from the audience. And of course, be a good audience member and be ready to ask some now and then.
- DO NOT** read your slides, if you decide to have slides. Talk about them or explain any pictures or graphs, but don't insult anyone by reading a slide out loud that they can read to themselves.

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BEWARE!

Remember to write your paper so *other class members* can understand it. If you find yourself using a word that you (or maybe others) don't know, translate or define it in your paper.

In order to make sure your vocabulary is OK for your class, I may give a vocabulary quiz after the papers are in. Each question will be a word from a different person's report. Your grade will depend on how many people define it correctly in the class. Tricky, huh?

REPORT

DUE MARCH 31

PRESENTATIONS

BE READY MARCH 31

(at the earliest)

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Substances

Student	Compound	Student	Compound
	hydrogen sulfide	Kyree	ammonia
Zoe	ethanol		dimethyl sulfoxide
Emily	caffeine		adenine
Abby	aspartame	Thamer	glycerin
Cassandra	sucrose		ethylene glycol
	benzene		hemoglobin
	sodium hydroxide	Yescenia	chlorophyll
	nitric acid		lime
	hydrochloric acid		ethyl acetate
	sodium chloride		lactose
Areej	acetic acid	Jenny	nicotine
	sulfur dioxide		warfarin
Gomez	gasoline		thalidomide
Stacia	capsaicin *		water
	retinol		urea
	formaldehyde		hydrogen cyanide
	ethane	Jessi	buckminsterfullerene
	acetylene	Lucas	MTBE *
Brian	acetylsalicylic acid		allyl sulfide
Stephanie	ozone		
Bethanu	nylon		
Kevin	Teflon		
Cam	borax		
	penicillin		
Baley	cadaverin		

* Note: Stacia refused to choose and Lucas was absent, so these compounds were assigned to them.