

# Chemistry End of Year Project Instruction Sheet

## Title- The Chemistry of ...(add your teacher's favorite thing that can be linked to Chemistry)

### Introduction

- Explain why you chose your choice?
- How is life affected by your choice?

### Background Research-DO NOT COPY/PASTE ANYTHING FROM THE INTERNET! YOU MUST WRITE IT IN YOUR OWN WORDS!\*\*

In this section you will research the 'science' involved in or relating to your choice..

- What is it? Learn everything about it.
- What is it made of? Does it have a food label?
- What chemicals are in it?
- What are the chemical reactions involved or needed?
- List all of the components of your ... (everything it is made of [ex. sucrose, lactose, polyvinyl-chloride, etc])
  - If you chose a ... that has multiple parts then you might need to make separate sections for each part (example: The Chemistry of Skateboards: make headings under "The Composition of Skateboards" for each of the 'parts' of the skateboard: Board; Wheels; etc? Under each heading include the composition of each 'part').

### The Composition of...(fill in your favorite thing)

- Determine the main components in your teacher's favorite thing ...
  - Record them in this section, a bulleted list is fine.
  - Include the chemical composition of the components if needed using the subscript button if needed (ex. C<sub>2</sub>H<sub>5</sub>OH)

### Main Chemicals, Components and Compounds of... (fill in your favorite thing...)

- For this section we will focus on the main components and/or ingredients of your choice.
  - Research the main components in great detail so that you can TEACH us about these components.
    - Focus on the following for this portion of your report (for each component):
      - How,What,When,Why,Where

### Chemistry's Role

- For this section describe the role of chemistry in your teacher's favorite thing:
  - How are the main components of your choice made? Are they naturally occurring? Are they created in a lab? If so, how do they create them?
  - How does chemistry play a role in creating/building it?

### Resources

- This is where you will keep all of the resources you use while researching your topic.
- Copy/paste the url (page address) for every website and webpage you use in your research
- Keep detailed records of all your resources and the information you get from each
- Minimum requirement - 3 different, reputable resources You Cannot list Google or Wikipedia as a source.

Possible Resources:

<https://www.youtube.com/user/ACSReactions>

<https://cen.acs.org/>

<https://www.youtube.com/watch?v=6vVhjP433Gg>

<https://www.compoundchem.com/>

**Citing Your Work:** <http://owl.english.purdue.edu/> This is an very helpful website for citing all of your sources and information!

Grabbing images from Google is easy. You search, copy and paste. It's a no-brainer and often the first thing we do when creating any sort of digital project that requires images.

But how do you know if we have permission to use someone else's photos? To be a good digital citizen , we need to understand copyright and how to find royalty-free images that are OK to use in projects.

<http://www.pics4learning.com/> (Links to an external site.)

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- o START THINKING ABOUT HOW YOU ARE GOING TO CREATE A VIDEO THAT EXPLAINS "The Chemistry of ..."!!!