Sc. 10 Unit 1 Chemistry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inquiry Project Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Block: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total: \_\_\_\_\_\_\_\_\_\_\_\_ /16

1. **Come up with your own essential question. Essential questions could be around making things, the impact of things:**

* How important is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our daily life?
* What is the impact of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our daily life?
* What is the effect of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the environment/human health?
* What is the role of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in cosmetics?

**OR**

**B) Here’s a list of essential questions you can choose from as well.**

* What issues we need to consider in applying nanotechnology?
* Most of the compounds have practical uses. Pick any three out of the chemistry unit and research their practical uses. What are the practical uses of \_\_\_\_, \_\_\_\_, and \_\_\_\_? Which one is most valuable?
* Why your body produces lactic acid after a heavy workout and why cooling down after exercise helps prevent a build-up of lactic acid?
* In what situations might it be beneficial to apply a gentle acid directly to skin or hair?
* How can we halt the acidification of our oceans?
* Why acidification of our oceans is a problem?
* What is being done to preserve famous statues around the world made from limestone like the Great Sphinx of Giza?
* What environmental concerns would you need to consider to refine mineral deposits into lead metal and zinc metal?
* How acids and bases are used around our home, or in hair care products, or in art, or in cosmetics or in etc.?
* Why might it be important to recognize the type of compounds around household by reading its chemical formula or chemical name?
* What bike would you recommend to buy to have a special resistance to corrosion and why?
* How are chemical reactions related to food preservation?
* When might it be important for you to use the knowledge of speeding up or slowing down chemical reactions?
* What chemical processes are used by First nations?
* How are traditional medicines prepared for different uses?

OR

Come up with your own question. Teacher`s approval is required.

Step 1:

Your research question is…

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|  |

Why did you select this question?

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Provide definitions of the key words in your question and/or key background information.

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Step 2:

Take notes to help you answer your question. You are expected to use more than one source to develop a balanced response to your question. (Use sample note sheet below or the one from the library blog)

|  |  |
| --- | --- |
| Source # | Information gathered from this source. For example, notes, comments follow-up questions. \*\*\*\*Please make sure to hand-in your research notes\*\*\*\* |
| 1 |  |
| 2 |  |
| 3 |  |

Step 3

Create your bibliography using EasyBib and attach it as a Word document to your project.

Refer to the following marking rubric to guide you while you prepare your mini-poster.

**Sc. 10 Inquiry: What chemical processes - personal, local, or global - affect your life?**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Due:** \_\_\_\_\_\_\_\_\_\_\_

Block: \_\_\_\_\_\_\_\_\_\_\_\_\_ Total: \_\_\_\_\_\_\_\_/16

There are two parts to this project.

\*\*\*Please hand-in this grading sheet along with your assignment\*\*\*

**Part 1)**

Review your research notes and submit with your poster.

Part 2)

Please answer your question by preparing a mini -poster (a single 8.5 X 11 sheet of paper). You are encouraged to use Google Drawing or other electronic poster templates such as Explain Everything to create your poster.

Use the grading rubric to guide you as you complete this assignment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| GRADING RUBRIC | 4 | 3 | 2 | 1 |
| Timeliness = LRQ | On time: class time is used efficiently | Excused absence |  | Not on time |
| Knowledge:  Clear and concise understanding of the topic | The research question is thoroughly answered. |  |  |  |
| Thought and creativity | Work is in-depth, reflective and thoughtful. A creative approach is used. |  |  |  |
| Neatness and Organization | Care and attention was taken. I can tell you put effort and care into your mini-poster | Neat and creative | A little neat and a little creative | Lacks neatness and creativity |

[MLA Format](http://www.citationmachine.net/mla7/cite-a-website/manual)

Bibliography: Please include at least 3 sources to support your response. You must reference each assertion or claim. Don’t forget to cite images, videos, etc.