**Name:**

**Date:**

**Instructor’s Name:**

**Assignment: SCIE211 Phase 4 Lab Report**

**Title: Analysis of Energy Sources**

**Instructions:** You will write a 1-page lab report using the scientific method.

**When your lab report is complete, post it in Submitted Assignment files.**

**Part I:** Using the lab animation, fill in the data table below to gather your data, and use it to help you generate your hypothesis, outcomes, and analysis**.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Energy Source | Fuel (Coal)/Uranium Needed (tons) | CO2 Emissions (tons) | Sulfur Dioxide and Other Emissions (tons) | Radioactivity mSv (millisievert) | Solid Waste (tons) | Accidents |
| Quarter 1 | Coal |  |  |  |  |  |  |
| Nuclear |  |  |  |  |  |  |
| Quarter 2 | Coal |  |  |  |  |  |  |
| Nuclear |  |  |  |  |  |  |
| Quarter 3 | Coal |  |  |  |  |  |  |
| Nuclear |  |  |  |  |  |  |
| Quarter 4 | Coal |  |  |  |  |  |  |
| Nuclear |  |  |  |  |  |  |

**Part II:** Write a 1-page lab report using the following scientific method sections:

* **Purpose**
	+ State the purpose of the lab.
* **Introduction**
	+ This is an investigation of what is currently known about the question being asked. Use background information from credible references to write a short summary about concepts in the lab. List and cite references in APA style.
* **Hypothesis/Predicted Outcome**
	+ A hypothesis is an educated guess. Based on what you have learned and written about in the Introduction, state what you expect to be the results of the lab procedures.
* **Methods**
	+ Summarize the procedures that you used in the lab. The Methods section should also state clearly how data (numbers) were collected during the lab; this will be reported in the Results/Outcome section.
* **Results/Outcome**
	+ Provide here any results or data that were generated while doing the lab procedure. Include your table of data.
* **Discussion/Analysis**
	+ In this section, state clearly whether you obtained the expected results, and if the outcome was as expected.
	+ Note: You can use the lab data to help you discuss the results and what you learned.

Provide references in APA format. This includes a reference list and in-text citations for references used in the Introduction section.

Give your paper a title, and identify each section as specified above. Although the hypothesis will be a 1-sentence answer, the other sections will need to be paragraphs to adequately explain your experiment.

 When your lab report is complete, post it in Submitted Assignment files.