**STEP 9 Write an Abstract**

An abstract is an overall summary of the experiment. It is a shortened version of the entire research paper. The following format should be used:

<table>
<thead>
<tr>
<th>Block 1</th>
</tr>
</thead>
</table>
| **TITLE (all Capitals)**  
Last name, First name, Middle initial |

1. Type single spaced.
2. Use the preset margins of left and right at 1.5” and top and bottom at 1.5 “. Maximum size for type or font is 12 pts.
3. The abstract is a summary of the project. The abstract should be about 250 words. It should include:
   - The purpose
   - The hypothesis
   - A summary of the research and experimental design*
   - A brief description of the results*
   - The conclusion*
4. The abstract is to be written in third person. This means no use of the words “I”, “my”, “you”, etc. Instead, use phrases such as “he discovered” rather than “I discovered”.
5. The abstract should be displayed with the project board. (For those students doing a board – See layout provided on SharePoint.)

* the information for these two paragraphs could be a copy and paste set up from your research paper and/or data analysis.
Abstract

DO ALL CANS OF SODA HAVE THE SAME DENSITY?

McGinnis, Jill, E.

The purpose of this project is to determine if all sodas have the same density as water. If canned sodas are placed in an aquarium filled with water, then all the sodas will sink, because they all have a density greater than water.

Density is a measure of how much material is contained in a given volume of a substance. It is calculated by dividing the mass (in grams) of an object by the volume (in cm$^3$ or mL). By determining the density of an object one can identify the substance. No two pure substances will have the same density.

Water has a mass of 1g/cm$^3$ and is used a baseline density for many science experiments. Often substances are referred to as having a density greater than or less than water. It is known that substances denser than water will sink and those lighter than water will float. Ice, which is merely the solid form of water, has a density of .93 g/cm$^3$. This explains why ice floats in water. Salt water has a density that is greater than fresh water, therefore icebergs, which are mainly fresh water, float on or near the surface of the ocean.

All of the diet sodas floated when placed in room temperature tap water. All of the regular sodas sank to the bottom of the aquarium filled with room temperature water. There was one exception, the Dr. Pepper floated. An additional experiment would need to be conducted to determine why this happened.

The purpose of this project is to determine if all sodas have the same density as water. If canned sodas are placed in an aquarium filled with water, then all the sodas will sink, because they all have a density greater than water. All of the diet sodas floated when placed in room temperature tap water. All of the regular sodas sank to the bottom of the aquarium filled with room temperature water. There was one exception, the Dr. Pepper floated. An additional experiment would need to be conducted to determine why this can floated. Based on this data the hypothesis was not supported.