[name omitted for sample]

5/31/08

The Amount of Air Pollution in Haines City High School

The purpose of this research is to find out the amount of air pollution on the Haines City High School campus. The results would determine if Haines City High School is a safe place to breathe in and if anything needs to be done about the air. This leads to the question, 'How clean is the air in certain locations of the HCHS campus?' Some background information that would need to be known are air particles and air pollution in general. Air pollution is the release of harmful particles into the air ("What is Air Pollution?"). This pollution is caused by mainly fuel combustion and transportation (Socha), therefore it can be said that if the air particles come in less contact with the burning of fuel, the cleaner the air would be in that particular location.

The materials that were used were six index cards (3 x 5), six popsicle sticks, tape, Vaseline, paper and pencil, and a magnifying glass. After the materials were gathered, a two-inch circle was drawn on each index card. The names of the locations were written on the back of three cards. Each card was then taped to a popsicle stick. A thin layer of Vaseline was applied to each circle, and then each card was inserted into the ground in their assigned locations. (When it rained, the cards were to be taken in.) After two days, the cards were collected and a magnifying glass was used to count the number of particles on each card. The numbers were recorded and the steps were repeated for the other three remaining cards, using the same locations. After that, the results were averaged and inserted into a data table.

It was found that the parking lot had the most pollution, with the backyard coming in second, followed by the courtyard. The results in the table are an estimation of the number of particles.

Amount of Air Pollution in Haines City High School

Trial	Location	Number of Particles
1	Courtyard	350
	Backyard	1000
	Parking Lot	1550
2	Courtyard	400
	Backyard	900
	Parking Lot	2000

The data showed that the air was dirtier where there were more vehicles. The hypothesis that the air would be cleaner if it came in less contact with the burning of fuel was supported by the results. If this experiment was to be conducted again, it would take place indoors instead of outdoors to see the comparisons. It can be concluded that HCHS is a safe environment to breathe in, in certain locations like the courtyard. If people wanted to know the air pollution at a distinctive point, then they could use the following methods.

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