Name(s)	Project Number
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Project Title

pH Levels of Saliva

Abstract

Objectives/Goals
To determine if pH levels in the saliva of various animals and humans change at different times of the day.

Methods/Materials
Six humans, four dogs, and four cats were used in testing the pH of their salvia. All of the subjects p| levels were tested every three hours, beginning at 8:00 A.M. and ending at 8:00 P.M. I repeated my experiment twice on two separate days. The various animals and humans were tested two times using this method.

Results
The average pH level in the salvia of humans was about neutral, pH of 7. While dogs and cats had pH levels that were a bit higher, therefore meaning less acid was detected in their salvia. I did discover not€ discover a strong trend with any of my subjects results. The pH level in various animals and humans di| change at different times of the day.

Conclusions/Discussion
My results did support my hypothesis, pH levels in various humans and animals do change at different times of the day. The human#s pH levels seemed to increase in the morning and level out in the afternoon, once again rising in the evening. Dog#s pH levels seemed to have a steady downward trend as the day went on. Cat#s pH levels on the other hand bounced around throughout the day. The difference between human#s pH levels and dogs and cats pH levels was humans were mostly neutral, while dogs and cats contained less acid in their saliva. I measure in whole increments. If I were to repeat this experime€ for a third time I would use a pH meter.

Summary Statement
My project is about taking various animals and humans, testing their pH levels in their salvia, to see if it varies throughout the day.

Help Received
Tim Hannah helped me generate my graphs and charts onto the computer; my mom helped me hold some of the animals while taking their pH levels with the pH strip. My science teacher, Mr. Lippmann, allowed me to use some of his pH testing strips.