

When Your Goggles are Gone And Nowhere to Be Found!!



Name:

Date:

Period:

Laboratory Exercise:

Today I am going to try and make a really serious point that I hope will sink in. While this lab may be cool, kind of gross, and definitely grab your attention...there is a significant point that I am trying to get across to you. Although I also hated wearing goggles in high school science labs for many reasons (they mess up your hair, you look like a total dork, they get hot and stick to your face, and you have goggle rings under you eyes after lab), it really is important that you wear them at ALL times!!!! I hope that this lab will demonstrate exactly what can happen to your eyes and your flesh if you don't follow the proper safety rules. We will be utilizing chickens that were harvested for an experiment in the UGA Poultry Science Dept. We will be adding sulfuric acid to the various tissue samples and eyes as an example of what can go awry if you do not wear your goggles at all times!!!

Directions:

In order to ensure that you all become scientific geniuses it is important that you learn not only to walk the walk but to also talk the talk. Scientists are incredibly descriptive people. They can spend an hour describing a leaf in such detail that you want to scream. However, it is very important to learn to be descriptive and accurate when describing results in the laboratory. When describing results think of describing form, shape, size, color, dimension, weight, temperature, consistency, appearance, conditions etc. in order to convey your results to your readers. For each station I would like you to describe the tissue/organ samples before you put acid on the samples. I would then like for you to hypothesize what you think will happen when you add acid to the samples, include the appearance of what you think your sample will look like. After adding acid to the sample, describe what your results were and tell me whether you accept or reject your hypothesis and why!

Format for Lab Write Up:

Name of Sample:

- 1) Observations of sample prior to adding acid (in complete sentences!) Also, scientists never use first person in describing their results. For example, do not write: "I thought the eye looked mushy and slimy." Instead, you would write: "The eye ball sample appeared to be covered in a slimy layer and did not have a solid consistency."

- 2) Hypothesis: what will happen when you add acid to your sample?
- 3) Observations after adding acid to sample
- 4) Did you accept or reject your hypothesis and why?

**** Rejecting a hypothesis is just as important as accepting a hypothesis! In science, you learn just as much from what is not found to be true as you do from what is found to be true!