ASSIGNMENT FOR SUMMER PROJECT
SCIENTIFIC RESEARCH II
DR. MICHELLE THOMPSON

If you have questions, please contact Dr. Michelle Thompson at mthompson2@effingham.k12.ga.us.

PROJECT IS DUE ON THE FIRST DAY OF SCHOOL FOR ALL STUDENTS, EVEN IF YOU HAVE SCIENTIFIC RESEARCH SECOND SEMESTER. PLEASE JOIN THE GOOGLE CLASSROOM FOR SCI RESEARCH II USING THE CODE tplfpzf

Digital Photo Journal Project

In Scientific Research I we learned how to develop a research question, how to formulate a testable hypothesis, and how to conduct research and write our findings in a review of literature. The focus of Scientific Research II will be on Experimentation and Data Analysis and Interpretation. In most of your previous courses, data has been collected using some sort of measurement tool (such as a temperature probe or pH strip) and recorded in a table. This recorded data, often in numeric form, can help tell the story of what happened during the experiment. However, there is something to be said for the old cliche’ “A picture is worth a thousand words.” The purpose of this project is to emphasize that pictures (and video) can be equally important, sometimes even more than, as compared to traditional data collection methods of which you are probably most familiar.

You will be creating a Google Slides presentation that will emphasize a variety of ways you can capture data using photo or video. Each slide will need to have a well written caption that tells the story of the picture. I know many of you are skilled at photography and videography. If you have additional ideas for pictures/video you would like to capture, PLEASE include them in your project. For example, if you have a time-lapse feature on your camera, you might want to take a series of pictures of a ball being thrown in the air. You might choose to have your pictures tell a story or have a theme. Maybe you are going somewhere really neat this summer and you want to highlight your trip through your pictures. Maybe you really love football and you want all of your pictures to be about this sport. How you execute this project is entirely up to you. Those of you without access to a camera may find pictures from the internet that will fit each description. (But truthfully, that’s really not the point of this assignment----I’d much rather you go out and collect your own data!) Be creative and have fun!

The following list is the MINIMUM requirements for this project which will earn a score of 100% as ONE ASSESSMENT grade for the first marking period of Scientific Research II if turned in before August 3rd at 7:30 am. EACH SLIDE should have a well written caption that tells the story of the picture(s) or video in that slide.

Slide 1: Title Slide with your Name and the title of this project

Slide 2: Details-----Take a picture up close and then take a picture of the object at a normal distance

Slide 3: Parts of a whole----Identify the parts that make up the picture as a whole
Slide 4: Using Filters----Take a picture and use at least 4 different filters
Slide 5: Measurements----Draw at least three measurements on a picture
Slide 6: A Process----Have a series of pictures (minimum 4 pictures) that describes a process
Slide 7: Action Shot----Take a picture of something or someone in action
Slide 8: Multiples----Take a picture of items that are similar yet different
Slide 9: Black and White----Take a picture using only the colors black and white OR take a picture using the black/white filter
Slide 10: Video: Regular Speed vs Slow Motion----Take a video of something moving at regular speed. Then use the same video to adjust the speed to ½ the time.
Slide 11: Video: Regular Speed vs in Reverse----Take a video of something moving at regular speed. Then use the same video in reverse. (Must be different than in Slide 10.)

*****I will post an example Project Presentation in Google Classroom by June 12th.