Fifth Grade Further Projects
Fall Semester - Life Science

Name / HR _____ Due Date _____

Choose any three projects to complete and turn in by the due date, or earlier. Don't wait until the last minute! We will cover each of these topics during the fall semester. You can EITHER wait until we've studied the topic to begin the project OR you can start when you're ready.

On each project, include your full name and homeroom. You may turn them in on paper (typed or neatly written) OR you may email a document to me at joye_hopkins@dekalbschoolsga.org with "Further" in the subject line. It's probably fine for you to change the format of the finished project, but ask me to be sure. For example, you may create a power point or prezi instead of a written report. You may create a 3D model instead of a drawing.

	A	B	C
1	Choose one animal that you've never heard of from the Wildlife Adventure Cards to research. *Write or type a 200+ word story* about a day in the life of your animal. Include information about its physical features, diet, and habitat. Describe an encounter with its prey or predator. *Draw an original picture* that clearly shows at least two adaptations that help the animal survive. Label them. (These adaptations can be physical traits or behaviors.)	Name the seven layers of the Scientific Classification System. Choose ten animals and identify each by all seven names, and include the common name as well. Three different phyla must be represented. (Hint: "Kings Play Chess On Fine Grained Sand.")	Read about carnivorous plants and write about your findings. What makes them unique? How do they attract their prey? Choose one species of carnivorous plant and create an original, detailed drawing with labels that shows how the plant attracts, traps, and digests the prey.
2	Draw a detailed, colorful picture that illustrates how the immune system responds to organisms introduced by a vaccine. Label everything including white blood cells and antibodies. Write a paragraph that explains it.	Write a poem or rap song that follows the pathway of one of the major human body systems. Include all of the *major organs and function(s)* of that system. Be prepared to read the poem or sing the song.	Read about Dr. Alexander Fleming and his amazing discovery. Write an informational report that includes (at least) the answers to these questions: 1 – What did Dr. Fleming discover? When? How? 2 – Why did the bacteria stop growing around the fungus spore? 3 – How does penicillin work? 4 – Why is it safe for humans to use?
3	Dissect these words and define the prefix, root word, and suffix for each: archaebacteria, paramecium, microscope, arthropod, photosynthesis, omnivore, unilateral, aviary, exterminate, herbicide, ultrasonic, infrastructure (Each word might not have a prefix, root, AND suffix.) Example: noninfectious non = not infect = sick or tainted ious = characterized by	Read about bacteria. Choose two specific types – one harmful and one helpful to humans. Write a paragraph about each one. *How do we benefit from the helpful bacteria? What conditions would allow the harmful bacteria to become a threat to a community?*	Research the reasons behind the increasing rate of children's asthma. Create a line graph that shows the data over the last 40-50 years. If possible, speak to a doctor to get his/her opinion. Write a paragraph that summarizes the current scientific theories about why asthma rates are on the rise.