**Projects for Dissection Time**

Along with the projects below, you will have worksheets to turn in for dissections that we do in class. Each worksheet is a lab grade. I will also give you an assignment grade for the dissections so long as you participate.

The projects below are worth two lab grade and a test grade. You will still have a comprehensive final for those students who are not exempt. You will need to be passing before you are allowed to do the dissections. The projects are not an option and if you are not passing you need to work extra hard because you are still responsible for dissections and project.

Timeline: Projects are due on Wednesday May 31 after school. I will not take late work after this. You may turn in your projects early if you like. The sooner you start, the easier it will be.

**Choose and complete one of the following ideas for a project to do on invertebrates:**

1. **Choose any 10 invertebrates and do black ink drawings** on these organisms on separate sheets of unlined paper. For each black ink drawing please Identify the invertebrate’s phylum, class, scientific name and common name.
2. **Construct a scrapbook containing 20 colored pictures** (non-internet pictures) of various invertebrates. Attach each picture to a separate sheet of paper and include the invertebrate’s phylum, class, scientific name and common name.
3. **Build a 3-dimensional model of any invertebrate**. Include It’s scientific name and common name.
4. **Create your own arthropod!**  Make up a name, description, taxonomy, etc. for your organism. Your arthropod must include the basic characteristics of all arthropods. A drawing of your "arthropod" must be included along with your written description.
5. **Using materials that you can recycle, such as aluminum pop cans, cardboard tubes, styrofoam trays, etc., choose an insect and construct it**. Include the common name & order with your insect.
6. **Construct a crossword puzzle** (not a word search puzzle) with at least 40 different invertebrates or invertebrate terms. You must include an un-worked puzzle and a key with your crossword.
7. **Choose two social insects** and a 3 to 5 page typed, 1.5 spaced, size 12 font, using Times New Roman, Calibri, or Arial **paper comparing and contrasting** their caste systems and social behavior.

**Choose one of the following activities to turn in at the conclusion of the unit study of vertebrates.**

1. **Create a portfolio of pictures and descriptions of the most dangerous sharks**in the world. Write a report on general information about sharks, it’s habitat, it’s evolution include with your portfolio. Also, tell what can be done to avoid shark attack and what should be done if an attack occurs.
2. **Research the migration pattern of one of the following — gray whale, caribou, Arctic wolf, or a species of bats.** Include a map of the animal’s migration route, season when the migration occurs, and a description of the animal’s feeding and mating habits.
3. **Construct, on poster board, a phylogenetic tree for a vertebrate group** (fish, amphibian, reptile, bird, or mammal). Include pictures of the organisms on your tree and write a short paper describe the evolution of this group.
4. **Construct a scrapbook of 20 pictures of one mammal order**. Pictures may not be Xeroxed or computer generated! Include Identify the invertebrate’s phylum, class, scientific name and common name.
5. **Make a three-dimensional collage of one group of marine vertebrates or a desert vertebrates**. The shape of the collage must illustrate something from the marine environment or a marine organism or desert environment or a desert organism. Include a brief description of the marine/desert environment and organisms you chose for your collage.
6. **Make a photographic album of pictures of birds**. (Pictures will not be returned!) Include the common and scientific name & a brief description of each bird. These should be pictures you took of birds not birds from the internet.
7. **Build a model of the digestive tract of an herbivore** such as a cow. Be sure to include the dentition and an explanation of how this animal’s digestive tract is adapted to its diet.
8. **Construct a display of the hearts of these 3 vertebrate groups** — fish, amphibian, bird or mammal. Use modeling clay to make cross-sections of the hearts showing chambers and valves. Identify all parts of the hearts on your display.
9. **Create a “How to” dissection video on dissection of a frog.** Include internal and external features. This video should include background information about the frog. Dissection Safety and proper disposal of dissection.
10. **Create a dichotomous key for five species in a class in the Kingdom Animalia.**  Include enough information to truly identify that species.
11. **Create a scavenger hunt of interesting fact of Animals in the phylum vertebrate.** This can be an internet search. Create this scavenger hunt in google form. (Ask for help if you need it on how to use google form)
12. **Construct a crossword puzzle** (not a word search puzzle) with at least 40 different vertebrates or vertebrate terms. You must include an un-worked puzzle and a key with your crossword.
13. **Write a paper** by choosing two vertebrate classes and a 3 to 5 page typed, 1.5 spaced, size 12 font, using Times New Roman, Calibri, or Arial paper comparing and contrasting the classification of these vertebrate.