

Name _____ Date _____ Period _____

ANIMAL DIVERSITY POSTER PROJECT

INTRODUCTION:

The purpose of this project is to provide students with the basic knowledge of the diversity of the animal kingdom. You will work by yourself or with one partner, depending upon the size of the class. First, each team must choose a topic (or two) from the following list:

- ❖ Phylum Porifera
sea sponges
- ❖ Phylum Echinodermata
sea stars, sea cucumbers, sea urchins, sand dollars
- ❖ Phylum Cnidaria
jellyfish, hydra, sea anemone
- ❖ Phylum Chordata, Class Agnatha
jawless fish, hagfish, lamprey
- ❖ Phylum Platyhelminthes
flatworms, tapeworms, flukes
- ❖ Phylum Chordata, Class Chondrichthyes
cartilaginous fish, sharks, skates, rays
- ❖ Phylum Mollusca
bivalves, cephalopods, gastropods, polyplacophora
- ❖ Phylum Chordata, Class Osteichthyes
bony fish
- ❖ Phylum Annelida
earthworms, polychaetes, leeches
- ❖ Phylum Chordata, Class Amphibia
frogs, toads, salamanders, newts, caecilians
- ❖ Phylum Nematoda
roundworms
- ❖ Phylum Chordata, Class Reptilia
lizards, snakes, turtles, crocodiles, alligators
- ❖ Phylum Arthropoda
arachnids, crustaceans, insects, centipedes, millipedes
- ❖ Phylum Chordata, Class Aves
birds

POSTERS:

Each student will create a very large poster (the size of **4 poster boards** put together) that illustrates the life processes in the chosen phylum or class. This should be prepared with ***text*** that can be clearly read from a few feet away as well as a minimum of 4 ***pictures***, ***charts***, and/or ***diagrams*** per topic (minimum of 40 total).

PRESENTATION:

You will be graded on the presentation of the poster. Each team will present the poster to the class and deliver a ***10-15 minute*** presentation.

HANDOUT:

Each team must distribute a ***handout*** that summarizes the information in the poster. The handout is limited to ***two pages***. The handout must include all 10 categories listed under "TOPICS". You can print the text as small as you would like!

REQUIRED SOURCES:

Students must research information for this project using **4 print sources other than textbooks and 2 Internet sources**. You may use your textbook, but it does not count as a source. Online scientific journals will count as a PRINT source if approved by the teacher and librarian.

RESEARCH CHECK:

A research check will be held prior to the due date of the project. Students must present a minimum of **6 sources (4 print, 2 Internet)** and an **outline for all 10 items**. The 6 sources must physically be brought to class on the due date of the research check. Each of the 10 outlines must be completed on a separate sheet of paper. **Each outline must contain a minimum of 10 facts (100 facts total)**. If a group is assigned more than one topic, then a research check must be completed for each topic.

WHEN RESEARCHING FOR THIS PROJECT, PLEASE DO NOT VANDALIZE ANY OF THE MATERIALS FROM THE LIBRARY. DO NOT RIP ANY PAGES OUT OF THE BOOKS. DO NOT STEAL ANY OF THE BOOKS. YOU CAN SCAN PAGES ON YOUR PHONE OR USE THE COPIER MACHINE.

TOPICS:

The poster must contain the following **information** as it relates to the animals:

- | | |
|---------------------------------|--|
| ❖ Method of Acquiring Nutrition | ❖ Excretory System |
| ❖ Digestive System | ❖ Reproductive System |
| ❖ Circulatory System | ❖ Development, Body Plan, Symmetry |
| ❖ Nervous System | ❖ Ecological Niche (Role in the Environment) |
| ❖ Gas Exchange System | ❖ Evolutionary History |

GRADING:

This project counts for **100 points** and the various topics will be covered on future in-class quizzes.

DUE DATES:

RESEARCH CHECK

- ❖ print sources (4)
- ❖ internet sources (2)
- ❖ outlines (10)

FINAL PROJECT

- ❖ posters (4)
- ❖ handout (2 pages)

RESEARCH CHECK DUE DATE: _____

PROJECT DUE DATE: _____

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Project Hint:

**WRITE ALL OF THE
INFORMATION IN YOUR
OWN WORDS.**

Presentation Hints:

1. Your assignment is to teach the class.
2. Your grade will be **EXTREMELY LOW** if you simply read from your poster, handout, or notes.
3. Engage the audience when you present to the class.
4. Make your poster lively and creative! (10% of your grade is appearance)
5. The handout must be typed and easy to read. Cram in as much information as possible. If necessary, shrink the font size and margins. Students should not have to take any notes during your presentation.
6. Make sure to cover your animals as a general group as well as individual groupings. For example, if your topic is arthropods, discuss all 10 topics as they pertain to arthropods. Then discuss each as it related specifically to arachnids, crustaceans, insects, and centipedes/millipedes.
7. Plan for a 10 minute presentation. This time will go very quickly if you are prepared!
8. Students will be able to ask questions at the end of each presentation. Your ability to answer questions will be taken into consideration for your grade.
9. If you are presenting as part of a group, all group members must contribute equally to the presentation.
10. Good luck! Relax when you give your presentation. It is OK to be nervous!

Name(s) _____ Animal _____

ANIMAL DIVERSITY POSTER PROJECT

Poster Elements	Score
Method of Acquiring Nutrition	0 2 4 6 8 10
Digestive System	0 2 4 6 8 10
Circulatory System	0 2 4 6 8 10
Nervous System	0 2 4 6 8 10
Gas Exchange System	0 2 4 6 8 10
Excretory System	0 2 4 6 8 10
Reproductive System	0 2 4 6 8 10
Development, Body Plan, Symmetry	0 2 4 6 8 10
Ecological Niche	0 2 4 6 8 10
Evolutionary History	0 2 4 6 8 10

Total for Poster Elements	/100
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Poster Appearance	/20
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Presentation	/40
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Student Handout	/40
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FINAL GRADE	/200
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COMMENTS
