

Poster Project Zoology – Natural Selection

Things your project must have:

- Project must be on poster or construction paper (not regular paper), physical model, or PowerPoint presentation)
- Organisms must include:
 - 8 animals
 - 8 plants
 - 1 apex predator not included in other animals
(You can always have more but you cannot have less)
- Your environment must change from one Biome to a Different Biome after your chosen your cataclysmic event.
- Your must concentrate on one organism, with lots of detail, and that organism must survive the catastrophe.
- Your project must include 3 parts: a Before, a Catastrophe that drastically changes the environment, and an After (with changes due to the new environment)

Components of the Before section:

- Biome description
- Climate description (detailed)
- A complete food web with all you organisms
- Picture of the organism you are concentrating on
- A complete description of the organism you are concentrating on
(The more detail you put in everything in this section the easier the rest of the assignment will be)

Components of Catastrophe Section:

- Some type of picture of the depicting your catastrophe, before and after pictures are also good (can be printed from a computer, drawn, cut from a periodical, a photograph, etc...)
- A written narrative of the event and the changes that occur to the environment over the next 300,000 years

Components of the After section:

- Biome description (with changes)
- Climate description (with changes, detailed)
- A complete food web with all you organisms (with changes)
- Picture of the organism you are concentrating on (with changes)
- A complete description of the organism you are concentrating on (with changes)

The project can be in any orientation: PowerPoint presentation, physical model (shoebox ecosystem), or poster project (science fair type). All organisms can be real or completely made up as long as all rules are followed and you can justify the changes through the natural selection processes discussed in class. The entire ecosystem may be fictional. Examples include from books, movies, or even video games but all natural laws must apply and you must be able to justify the different aspects of you ecosystem and its inhabitants.

Grades will be based on: Required content, scientific viability, presentation, time put in to the project. Remember Details are key the more detailed you are the easier the project will be and the better grade you will receive.

Grading Rubric: *(Sample)*

Components of the before section: **40 pts**

- (5 pts)**- Biome description (detailed)
- (5 pts)**- Climate description (detailed)
- (5 pts)**- A complete food web with all your organisms
- (5 pts)**- Picture of the organism you are concentrating on
- (5 pts)**- A complete description of the organism you are concentrating on
(The more detail you put in everything in this section the easier the rest of the assignment will be)

Components of Catastrophe Section: **20 pts**

- **(8pts)** - Some type of picture of the depicting your catastrophe, before and after pictures are also good (can be printed from a computer, drawn, cut from a periodical, a photograph, etc...)
- **(12 pts)** - A written narrative of the event and the changes that occur to the environment over the next 300,000 years

Components of the after section: **40 pts**

- (5 pts)**- Biome description (with changes, detailed)
- (5 pts)**- Climate description (with changes, detailed)
- (5 pts)**- A complete food web with all your organisms (with changes)
- (5 pts)**- Picture of the organism you are concentrating on (with changes)
- (5 pts)**- A complete description of the organism you are concentrating on (with changes)

Pictures can be drawn, copied, printed or stick figures but they must be there. Grades will not be assigned based on artistic ability but you must make an effort.