

Design a Zoo Exhibit



- You are designing a Zoo Exhibit to showcase a specific “Order” in Class Mammalia.
- Choose an “Order” (Pg.3) that has animals you are interested in or are meaningful to you. (You can’t all do cats!)
- Classification is complicated...remember Red Panda, Raccoon and Giant Panda ...if you are interested in a Mammal that does not fall into one of these main “orders” below...run it by me, and I will do some digging to find out what order it is in, maybe it has a great story for it’s classification.

Present your exhibit to me electronically, in any format that works for you.

There are 2 main parts:

1. Detailed information about your exhibit. (Details to Include are on Page 2)

- Google Docs, Google Slides, PowerPoint etc...

2. Infographic Sign for your exhibit.

- Your infographic should not have all the information or details from your project, stick to titles and their main idea and appropriate graphic.
- Google “zoo habitat sign” to see lots of examples
- Websites to help you make infographics: (use “free” version, no need to sign up for ‘pro’)
 - <https://www.canva.com/create/infographics/>
 - <https://infograpia.com/>
 - <https://piktochart.com/formats/infographics/>
 - Let me know if you have had success with any others, I will add to my list.



Include in your presentation:

Animals:

- Names, scientific (Latin) and common
- Pictures and Photographs
- Choose 2 or 3 common representatives of your order

General Characteristics of Order:

- What sets them apart from other orders of mammals?

Habitat Design:

- What areas of the world do you animals normally live in?
- What special habitat features and considerations do I need to include to keep my animals happy and healthy?
- What is the “ground covering” in your habitat? Does it need a “roof”?
- What prevents my animals from escaping?
- Can more than one type of animal share my habitat?
- What protects your animals from the elements?
- What is locomotion like for my animals? How do I support this in my habitat?

Diet:

Did you know Disney’s Animal Kingdom in Florida has a herbivore garden (it is HUGE!) and a carnivore kitchen? They grow food for the herbivores, and have a kitchen to portion food for the carnivores.

- Plan an example 2 day meal plan for your animals, include:
 - types of food,
 - portion sizes and
 - frequency of feeding (meal schedule)
 - how you will provide fresh, clean water

Family Groupings:














- How do you animals prefer to group in the wild?
- How will you replicate that in your habitat?

Habitat Cleaning:

- Your animals will “poop”, sorry, fact of life.
 - How much?
 - How will you clean their habitat?
 - What will you do with the “poop”?

Infographic/Sign:

- Design an information sign for the front of your habitat.
 - It should be easy to read for a variety of visitors (kids, teens, adults and grandparents)
 - have pictures for visitors that do not speak a lot of English.
 - Think of what you would like to see if you were visiting a zoo in a non-English speaking country.
 - Your infographic should not have all the information or details from your project, stick to titles and their main idea and appropriate graphic.

Order	Typical Examples	Key Characteristics	Approximate Number of Living Species
Rodentia	Beavers, mice, porcupines, rats 	<i>Small plant eaters</i> Chisel-like incisor teeth	1,814
Chiroptera	Bats 	<i>Flying mammals</i> Primarily fruit or insect eaters; elongated fingers; thin wing membrane; nocturnal; navigate by sonar	986
Insectivora	Moles, shrews 	<i>Small, burrowing mammals</i> Insect eaters; most primitive placental mammals; spend most of their time underground	390
Marsupialia	Kangaroos, koalas 	<i>Pouched mammals</i> Young develop in abdominal pouch	280
Carnivora	Bears, cats, raccoons, weasels, dogs 	<i>Carnivorous predators</i> Teeth adapted for shearing flesh; no native families in Australia	240
Primates	Apes, humans, lemurs, monkeys 	<i>Tree-dwellers</i> Large brain size; binocular vision; opposable thumb; end product of a line that branched off early from other mammals	233
Artiodactyla	Cattle, deer, giraffes, pigs 	<i>Hoofed mammals</i> With two or four toes; mostly herbivores	211
Cetacea	Dolphins, porpoises, whales 	<i>Fully marine mammals</i> Streamlined bodies; front limbs modified into flippers; no hind limbs; blowholes on top of head; no hair except on muzzle	79
Lagomorpha	Rabbits, hares, pikas 	<i>Rodent-like jumpers</i> Four upper incisors (rather than the two seen in rodents); hindlegs often longer than forelegs, an adaptation for jumping	69
Suborder Pinnipedia	Sea lions, seals, walrus 	<i>Marine carnivores</i> Feed mainly on fish; limbs modified for swimming	34
Edentata	Anteaters, armadillos, sloths 	<i>Toothless insect eaters</i> Many are toothless, but some have degenerate, peglike teeth	30
Perissodactyla	Horses, rhinoceroses, zebras 	<i>Hoofed mammals with one or three toes</i> Herbivorous teeth adapted for chewing	17
Proboscidea	Elephants 	<i>Long-trunked herbivores</i> Two upper incisors elongated as tusks; largest living land animal	2

Zoo-Exhibit Rubric – Biology 11

	Not Yet Within Expectations Needs Some Work (2)	Meets Expectations Good Start (3)	Fully Meets Expectations Well Done (4)	Exceeds Expectations Wow! (5)
Content (15 marks)	<ul style="list-style-type: none"> • My information is often in accurate or copied • I didn't include all of the information required. • There is no organization of my material. It is confusing and difficult to follow. 	<ul style="list-style-type: none"> • My information is generally relevant and accurate but may be missing details • I only included the basic information • I have some organization of material, but it is sketchy at best. 	<ul style="list-style-type: none"> • My information is accurate, complete, and specific • I did a great job of covering all of the required • My information is well organized and my ideas are clearly and logically developed. 	<ul style="list-style-type: none"> • My information is accurate, specific and complete. • I went well beyond the basic information • My information is well organized and my ideas are clearly and logically developed.
Presentation - Excluding Infographic (10 marks)	<ul style="list-style-type: none"> • No visuals. • I have no introduction and / or conclusion. • My work is not very organized. • Weak presentation 	<ul style="list-style-type: none"> • Visuals are included but not labeled. • There is a weak introduction and conclusion. • My work is somewhat organized. • Satisfactory presentation 	<ul style="list-style-type: none"> • Visuals are labeled and relevant. • I have an introduction and conclusion. • My work is organized with headings. • Well done presentation 	<ul style="list-style-type: none"> • Visuals are well labeled and relevant. • I have a clear introduction and conclusion. • My work is organized with clear and logical headings. • Excellent presentation

Infographic (15 marks)	<ul style="list-style-type: none"> • Facts selected for infographic are not main topics • Includes information not relevant to infographic • Missing important information • Visuals and Layout, fonts and colourscheme confusing 	<ul style="list-style-type: none"> • Facts selected for infographic are major topics • Too many details • Missing important information • Main information is not clearly presented • Visuals and Layout, fonts and colourscheme may be confusing 	<ul style="list-style-type: none"> • Facts selected for infographic are major topics • Concise/to the point/ easy to understand • Contains unnecessary visuals but does not detract from layout • Organized layout • Colourscheme, and visual appeal works with content. • Fonts and text sizes appropriate for titles facts and captions 	<ul style="list-style-type: none"> • Facts selected for infographic are major topics • Concise/to the point/easy to understand • Easy to understand • Accompanied by appropriate visuals • Organized layout • Colourscheme, and visual appeal works with content. • Fonts and text sizes appropriate for titles facts and captions
Works Cited (5 marks)	<ul style="list-style-type: none"> • I didn't include one. (0 marks) 	<ul style="list-style-type: none"> • I only listed my sources • I have fewer than 3 sources. 	<ul style="list-style-type: none"> • I have my sources properly cited • I have at least 3 sources 	<ul style="list-style-type: none"> • I have my sources properly cited • I have 4 or more sources