

You have selected _____ to study for your marine animal research project. This research is intended to help us better understand marine ecosystems and food webs and the part they play within one.

THE ARLIS LIBRARY AT UAA HAS STUFFED ANIMALS FROM FISH AND GAME THAT YOU MAY CHECK OUT FOR YOUR PRESENTATION!

Your project will include the following:

- ⊃ **Research File** - You will have a file to help organize your research. I will provide this and show you how to set it up.
- ♀ **Oral Presentation** - You will present your research to the class. The way in which you present your information will be up to you:
 - 4 Animal name: genus/species/common name
(We will do a lesson in class about the difference)
 - 4 Two maps of where they live = summer/winter/year round:
 - ✓ One Alaska map with population
 - ✓ One world map with population
(This may be one map with both)
 - 4 Size = length/height/weight:
 - ✓ At birth (with a picture)
 - ✓ As an adult (with a picture)
 - 4 Life cycle = How long do they live?
 - 4 Eating habits = What do they eat and when?
 - 4 Reproduction = How many, how often, at what age?
 - 4 Socialization = How do they communicate and socialize within their species?
 - 4 Predators = Who are their predators?
 - 4 Adaptations :
 - ✓ Physical adaptations
 - ✓ Behavioral adaptations
(We will do a lesson on Behavioral Observations, Behavioral Adaptations, and Physical Adaptations in class)
 - 4 Describe their ecosystem: Where do they live?
 - 4 Tell about the food web your animal is a part of. What might happen to that web should this animal become extinct?
(You will create a food web for you animal in class)
 - 4 Something surprising or interesting you learned about your animal.
 - 4 A photograph of your animal in their natural habitat.
- ⊆ **Visual Aide** -In addition to a poster board which will

have your pictures, maps, graphs and anything else you want to put on there, you will need to choose TWO of the following to enhance your project. If you have a different idea, let me know and I will consider it.

- 4 Find a story (picture book) about your animal and read it to the class.
- ✓ Dress up like your animal, or dress up as one part of your animal - tail, ears, paws, etc.
- 4 Write a song/rap (set to music) and make copies (I will make copies for the class) and teach it to us.
- 4 Have a professional come and speak to the class about your animal.
- 4 Create a graph of some sort reflecting information about your animal.
- 4 Folk tale/fairy tale/poem - create your own.
- 4 Collection - assemble a group of objects which represent your Animal.
- 4 Scrapbook/collection - compile a scrapbook/collection of pictures/objects relating to your animal.

Marine Mammal Resources

<http://www.vims.edu/bridge/mammal.html>

This site is sponsored by Sea Grant and the National Marine Educators Association. It is a fantastic resource for marine science education. This link will lead you to specific marine mammal resources listed on the Bridge site, but you should explore other areas of the site for additional marine related information.

<http://www.afsc.noaa.gov/NMML/education/marinemammals.htm>

This site was created by the National Marine Mammal Laboratory; Includes extensive information on seals, sea lions, whales, porpoises, and dolphins.

<http://www.nmfs.noaa.gov/pr/species/mammals/>

This site was created by the NOAA and the National Marine Fisheries Service; Learn more about endangered, threatened and depleted species of marine mammals. Check out the kids pages for downloadable info pages on 8 whale species. (Sample out during evening activities.) Lesson plans included on this site as well.

<http://www.mnh.si.edu/arctic/html/wildlife.html>

SEA-ROZ
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This site was created by the Arctic Studies Center; General information on marine mammals and sea birds.

<http://www.nationalgeographic.com/xpeditions/activities/matrix.html>

This site was created by Kids National Geographic; Check out the expedition to the arctic and Antarctic.

<http://www.education.noaa.gov/tocean.html>

This site was created by NOAA; At least 20 different resources or activities to teach about the marine environment.

<http://www.vtaide.com/png/foodchains.htm>

This site was created by Parenting the Next Generation. Note: This organization identifies itself as a "Christian parenting network;" Students can build their own food chains; Different habitats included.

<http://www.adfg.state.ak.us/pubs/notebook/marine/bowhead.php>

This site was created by the Alaska Department of Fish and Game. The Wildlife Notebook Series provides information on a number of Alaska's animals. Marine mammals included: bearded seal; beluga whale; blue whale; bowhead whale; gray whale; harbor seal; humpback whale; northern fur seal; orca; polar bear; ribbon seal; ringed seal; sea otter; spotted seal; Steller Sea lion; and walrus. (Sample out during evening activities.)

<http://www.mbgnet.net/>

This site was created by the Missouri Botanical Garden. It is a good overview of different ecosystems.

<http://www.edc.uri.edu/lme/default.htm>

This site is sponsored by a number of organizations including NOAA and the International Council for the Exploration of the Sea. It might be useful as a reference for adults - definitely not a student site. It gives an overview of the large marine ecosystems of the world.

<http://www.buschgardens.org/just-for-teachers/guides/pdf/s&sl-k-3.pdf#search=%22growing%20up%20is%20hard%20to%20do%20walrus%22>

This is a 24-page PDF of a packet of lessons created by Sea World. It focuses on seals, sea lions and walruses. (Sample out during evening activities.)

