

Due 10 October 2017

_____/100 points

Endangered Marine Species Outline**Outline Instructions**

While the PPT presentation will be a group effort, the outline assignment is an individual assignment. Every student has chosen a threatened or endangered marine organism. Each student will prepare a **HANDWRITTEN** outline of the information below for his/her organism; **use a pen or a pencil**, not a computer. **Copy the bolded terms in the outline below and fill in the information.** The completed assignment should look like the outline below, but with additional information that is specific to your organism.

1. **Project title and student name.**
2. **Background:**
 - a. The organism's complete **classification (Kingdom to Species)**. Also, include the **common name** and **scientific name**.
 - i. Include **general characteristics about this organism's Phylum** in addition to **specific characteristics about this species**.
 1. What is **unique** about this animal?
 2. Are there any unique behavioral or structural **adaptations** it possesses?
 3. Include how is it **similar to** other animals of its taxonomic class or order.
 - b. The **environment** in which the organism lives:
 - i. **Temperature**
 - ii. **Range of distribution** within the body or bodies of water
 - iii. **Migratory patterns**
 - iv. **Depth** at which the organism resides in the water
 - v. **Habitat**
 - c. Indicate the organism's **current geographic range** and **previous range**.
 - i. **Print out a map/image of these geographic areas** and attach to outline.
 - d. What is the **organism's role (its niche) in the ecosystem**? Ecosystem = Community of organisms and their environment.
 - e. The **physical appearance** of the organism:
 - i. How do we distinguish this organism from other organisms?
 - ii. **Size range** from young to adulthood? Include **height/length** and **weight** at birth and maturity
 - iii. What does it **look like**?
 - iv. Include variations of **shape, size, color, etc.**
 - f. How the **organism survives**: what it **eats**, what it **hunts**, who is it **hunted by**?
 - g. **Reproductive strategies**:
 - i. **How often** does it reproduce?
 - ii. Type of reproduction- **viviparous, oviparous, or vivioviparous**?
 - iii. **Gestation period**
 - h. **Special features** that make the organism unique: ex. Echolocation in sperm whales, sea otters using tools to get food.
3. **The Problem:**
 - a. What **percentage of species remain alive**? How many have **died**?

- i. **Print out and include at least two relevant graphs, data tables and information** that illustrate the **population decline** of the organism; attach print out/image to the outline. Present data (in the form of pictures of exhibits, tables and/or graphs) that help your classmates understand what is known about your topic.
 - b. What are the **major reasons** that this animal has become threatened or endangered?
 - i. Are there any **other organisms** that will be **affected** if this species becomes extinct?
 - ii. Is it possible that other animals will **overpopulate** the geographic area or become extinct if your species becomes extinct?
4. **The Solution:**
 - a. What is being done to help this organism? Include **legislation** that has been proposed or passed by Congress. List **programs** that are currently being implemented or proposed.
 - b. **Why** should we help save this species or prevent it from becoming extinct?
 - c. What can we do to bring **awareness** about this situation to others in **our community**?
 - d. **Why did you choose this species for your project?**
 - e. **Does it have any special significance to you or your geographic location/community?**
5. **Literature cited:** All ideas, data, information that is not your own, must be cited, unless they are ideas common in the literature (e.g., that plants photosynthesize).
 - a. **Minimum 5 legit sources.**
 - b. Citing Web pages: DO NOT, unless it is a **peer-reviewed on-line journal; government, federal, university or college website**; then you may cite following the standard guidelines (i.e., author, date, title, journal name, pages if provided or url if not).
6. **Video Link:** At the end of the PPT presentation, include a link to a video (**3 minutes or less**) that helps to explain and/or show the importance of your hot topic. Time permitting, we will show all of the videos during the last class of the semester.