Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Marine Organism:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Marine Science Extra Credit

 Marine Organism Research

GOAL: **You will research a specific marine organism by describing in detail the attributes that define it as a living entity**. Life is described as sharing these characteristics; made up of units called cells, has the ability to reproduce, is based on a universal genetic code, must obtain and use energy, responds to an environment, maintains a stable internal environment and, as a group, changes over time.

**Picture of Organism** (Drawn or image)



Body of Research: This will be organized by the characteristics of life that makes the marine organism the individual that it is. (Must include \*\*Classification, and at least 4 choices from items 2-9)

1. \*\*Classification: Life is based on a universal genetic code; how is the marine organism classified? (Make a list, like the one below)
	* Common Name:
	* Scientific Name:
	* Taxonomy:
		+ 1. Kingdom:
			2. Phylum:
			3. Class:
			4. Order:
			5. Family:
			6. Genus:
			7. species:
* Location/Range: (Where could I scuba dive to see one?!)
* Map of distribution: (Cut and paste a global map with a key that depicts the population range.)
1. Anatomy: Life is made up of units called cells; how is the marine organism structured? For example, color, structure, eye development, fur pattern, etc.
2. Physiology: Life maintains some sort of stable, internal environment. What is the internal environment of the marine organism like? For example, endothermic/ectothermic/homeothermic?
3. Reproduction: Life has the ability to reproduce; what reproduction strategies and methods does the marine organism use to successfully reproduce?
4. Development and Behavior: Life grows and develops; include information such as what is the life cycle, growth stages, migration, intelligence, behavior and longevity of the marine organism?
5. Ecology: Life must obtain energy or materials for energy; what role does the marine organism play in the cycle of energy? What are its predators/prey? Are there other organisms in ecosystem that influence it? Food source/diet?
6. Habitat: Life responds to its environment; what is the environment of the marine organism like? Include:
	* Habitat description:
	* Abiotic factors such as latitude, depth, salinity, temperatures
7. Natural History: As a group, life changes over time. What is the natural history and fossil evidence of the marine organism? How has it changed over time? What are its ancestors?
8. Other: Anything else? (For example: what is the relationship to humans? Are there any **political or environmental issues** involved with this organism? Is there anything **special or unique** to add about this organism that is not covered in the other paragraphs?

Use sources such as the internet, scientific journals and books.