**Lesson Plan – Motion from the Ocean**

Nancy Norris and Liz Delgado

Episcopal Day School, Pensacola, FL

**Summary**

As part of our Oceanography unit, students will be choosing four jellyfish to research and create a hanging mobile representing the four species. While investigating life cycle, habitats, food sources, predators, environmental conditions (i.e. pollution, ocean acidity, temperature, etc…), and participate in Jellywatch.org.

Skills to be developed: citizen science, observation, identification, research, data entry, developing and creating models, obtaining, evaluating, and communicating information.

[TAGS: jellyfish, marine science, oceanography, citizen science]

**Key Concepts**

* + Environmental stewardship; ESS3C: Human Impacts on Earth’s Systems
	+ Ecosystem; LS2C: Ecosystem Dynamics, Functioning and Resilience

**Objectives**

* + Students will be able to identify species of jellyfish
	+ Record data from live observations of local jellyfish; report to Jellywatch.org
	+ Demonstrate understanding of jellyfish life cycle, habitat, anatomy, and how environmental impacts affect jellyfish
	+ Create life like models to hang from a mobile
	+ Present research to fellow students

**Materials**

 [www.jellywatch.org](http://www.jellywatch.org)

* + Jellyfish worksheet
	+ Crayons, colored markers, or colored pencils
	+ Thin cardboard or poster board
	+ Plastic lid or round piece of cardboard, at least 4 inches in diameter
	+ Yarn, string, ribbon, or fishing line, at least 10 feet
	+ Scissors

**Procedure**

* + Research and choose 4 jellyfish to include in mobile
	+ Complete “Jellyfish Worksheet” for each jellyfish selected
	+ Create 3D representation of each of the 4 jellyfish
	+ Create a hanging mobile (students will have creative leeway in the design of their mobile)
	+ Students will present mobile to their class and choose any two to discuss with their peers

**Assessment**

* + Performance – Presentation of project will reflect understanding of key concepts concerning the organisms life cycle, habitat, food source, interesting features, and potential environmental impacts upon species
	+ Product – The mobile must accurately reflect the selected jellyfish in physical appearance
	+ Effort – Does the project demonstrate effort and understanding of their subject

**Resources**

 [www.ocean.si.edu/jellyfish-and-comb-jellies](http://www.ocean.si.edu/jellyfish-and-comb-jellies)

 [www.mbari.org](http://www.mbari.org)

**Jellyfish Worksheet**

**Describe the basic structure/anatomy of the jellyfish** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Habitat and place in the food chain** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Reproduction and lifecycle**

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**Human and environmental impacts**

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**Additional interesting facts**

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