**MAKING WAVES C.E.U.**

**Unit Project**

**DUE:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Marine Ecosystems – Virtual Museum Exhibit**

You have recently learned of the various **marine ecosystems** that exist within our oceans. We have read about, discussed and summarized facts **about kelp forests, coral reefs, hydrothermal vents, and mangrove forests.** You have also learned about the **four main branches of oceanography, the biological, geological, chemical and physical branches.**

You will now engage in **research** of **one marine ecosystem**, as well **one specific organism living in that ecosystem** in order to create a virtual museum exhibit for others to enjoy. How will you do this? Read on. ☺

**Step 1:**

**Choose a marine ecosystem** you would like to research more deeply. Your research will be done both **at home and at school**. Research the **most important facts** related to your chosen ecosystem. These compiled facts (no less than six) will serve as one of your virtual ecosystem exhibits.

**Step 2:**

**Choose one specific organism living in your marine ecosystem** to research (no less than six facts), as this organism will be the topic of your second **virtual exhibit**, and you will also make a **3-D model** based upon your chosen organism. Your research will be done both **at home and at school. The model will be constructed at home.**

**Step 3:**

**Choose one of the branches of oceanography, excluding the biological branch**, and research that aspect of your ocean ecosystem (no less than three facts). As an example, if you were researching the estuary, you may want to base your third virtual exhibit on the **chemical branch** of oceanography related to the estuary, because estuaries have different levels of salinity in which a specific group of species survive. This information will serve as your **third virtual exhibit**. Your research will be done both **at home and at school**.

**Step 4:**

Create a well-constructed **model** of the creature to display along with your electronic virtual museum exhibit. You may sew, glue, bind, wrap, puncture, twist – whatever it takes – to use materials to neatly create a replica of your chosen creature. A “**plaque**” should be made to include **the name of the marine organism, its ecosystem, and the name of the model’s creator.** (That’s you!) The model and plaque should both be sturdy. Examples of models have been shared in class. The model and plaque will be done at **home**.

**Step 5:** Along the way, a **bibliography will be kept using Noodle Bib.** All sources will be cited, including the research done at home. Graphics will be sited too.

***You will be evaluated on your:***

-Research of the ecosystem

-Research of the ecosystem organism

-Model of the ecosystem organism

-Research of the ecosystem related to one of the branches of oceanography

-Virtual Museum displays & slides

-Virtual Museum ease of use

*L M Young 2012*

-Participation – time on task – dedication to project



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**Marine Ecosystems – Virtual Museum Exhibit Unit Project**

**Checklist & Rubric**

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

Checklist:

* Six ecosystem facts
* Six organism facts
* Three oceanography branch facts related to the ecosystem
* Model of organism
* Three virtual museum main page linked photos
* At least three virtual museum facts slides
* All pages slides linked for navigation

Rubric: