

# Honors Marine Science Discoveries Project



## **Objective:**

You will be investigating a contemporary research project in Marine Science. One class period will be dedicated for you to find a journal article or scientific publication that describes research that has contributed to our understanding of the ocean and/or the organisms that rely on the oceans. You may select from any discipline of Marine Science except Marine Conservation. Your job will be to summarize the project, findings and conclusions on the poster board and then present it to the class in a 5-10 minute presentation. Poster boards must be no smaller than 22" x 28" (standard size.) A digital poster board may be created using an appropriate app, however, it will need to be clear when projected to the class.

## **The following criteria must be included on your poster board:**

1. Title for the project
  - o Original title created by you, not the name of the journal article
2. Area of Marine Science investigated
3. Names of the researchers involved
4. Question being answered/Problem being addressed
5. Background information
  - o Summarize what the class needs to know to understand the problem/question
  - o Explain the importance of investigating this problem/question
6. Hypothesis for the research
7. Technology being used
  - o Do not list all the materials used in the research
  - o Focus on 1 technology and how it is used during the course of the investigation
8. Summary of the methods employed
  - o What did they do?
9. Results or observations made
  - o Include at least 1 visual of the results of the experiment
  - o You may use a chart, graph etc. published with the journal article, however you must cite it directly.
10. Summary of the analysis of the results and conclusions made
11. Include a QR code (or link if doing a digital project) that would enhance understanding of the project.
12. Full citation of the text on the back of the poster board.

## **Topic Approval:**

All students must have their topic and journal approved before beginning their project. In order to have your topic approved, students must complete and hand-in the project approval form attached.

## **Dates:**

***Topic Approval form due: Monday 9/12   Outline due: Tuesday 9/20   Project Due date: Monday 9/26***

**Project Rubric:**

	<b>15 pts</b>	<b>11 pts</b>	<b>7 pts</b>	<b>3 pts</b>
<b>Content criteria</b>	All required criteria are included on the poster and in good detail	All but 1 of the required criteria are included on the poster and/or details are lacking for few criteria	All but 2 of the required criteria are included on the poster and/or details are lacking for many criteria	Several required criteria are missing and/or details are lacking for most or all criteria
<b>Content - Accuracy</b>	All facts displayed on the poster are accurately described.	All but one of the facts on the poster are accurately described.	All but two of the facts on the poster are accurately described.	Several of the facts on the poster are inaccurate or wrong.
<b>Knowledge conveyed</b>	Student has an exceptional understanding of the problem/question being researched and can convey the research well.	Student has a good understanding of the problem/question being researched and conveys the research with minimal error.	Student has a fair understanding of the problem/question being researched and conveys the research with errors.	Student appears to lack understanding of the problem/question being researched and conveys the research with major errors or in a way which confuses the audience.
	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Neatness/Effort</b>	The poster is exceptionally constructed in terms of design, layout, and neatness. Great effort is apparent.	The poster is well constructed in terms of design, layout and neatness. Effort is apparent	The poster is acceptably constructed though it may be a bit messy. Effort is not entirely apparent.	The poster is distractingly messy or very poorly designed. It is not attractive. No apparent effort.
<b>Citations</b>	Works cited is attached. Proper MLA format.	Works cited attached but incorrect format.	Inaccurate citations.	No citations included.