Earth Science 11Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Oceans Technology-Art Project** Block: \_\_\_\_

We know more about space than we do about our own oceans! However, technology is fast evolving and making significant impacts to what we know, and how we’re contributing to saving oceans from climate change/human impact.

**Your task:** Inquire into the technology that drives our knowledge and exploration of the oceans by focusing in on one category and one type of technology. Find out what we do know, what we are still trying to learn, and/or what we are doing about the damages we’ve caused?

* Step 1: Choose one of the following four categories
	+ Climate Change: what is the impact of climate change on our oceans, how can we predict/model these changes, etc
	+ Weather: how is our weather impacted by our oceans, how can we predict/model these changes, etc
	+ Ocean Exploration: deep ocean exploration, discovering new species and/or places, etc
	+ Ocean Solutions: solutions to problems in the ocean such as; plastic islands, coral bleaching, etc
* Step 2: Choose a technology, this may require a little researching! Find **one** piece of technology/technological development that you wish to learn more about. We’ve looked at a few examples in class already.
* Step 3: Decide how you will share your findings **artistically**. This could be a model, sculpture, film, collage, music, painting, etc)

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| The ***category*** I have chosen is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The ***technology*** I will research is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ List one website or resource where you have found some starting information belowMy artistic product will be: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*Signed by Ms. Abbott\_\_\_\_\_* |

* Step 4: Research. You must include the following information in an ***artist’s statement*** along with your artistic creation
	+ In what ways has our ***understanding*** of the oceans ***changed over time*** since the invention of your technology? Ie. What is the impact of your technology on our understanding of oceans and/or your category.
	+ What are some of the social, ethical, economic, and/or environmental ***impacts*** of your technology, specifically in relation to our oceans.

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| **7** | **6-5** | **4-3** | **2-1** | **0** |  |
| \* | Creative piece demonstrates clearly the topic/technology. It is complete and relevant | Creative piece is complete, and relevant. | Creative piece is complete.  | Student does not meet any of the descriptors | **Construct, models, and/or diagrams** |
| \* | **Describe** the ways in which our understanding of oceans has changed over time with reference to your technology | **Summarize** the ways in which our understanding of oceans has changed over time with reference to your technology | **Outline** the ways in which our understanding of oceans has changed over time with reference to your technology | Student does not meet any of the descriptors | **Consider changes in knowledge over time as tools and technologies have developed** |
| \* | **Discuss** the implications of your technology with reference to our oceans | **Summarize** the implications of your technology with reference to our oceans | **Outline** the implications of your technology with reference to our oceans | Student does not meet any of the descriptors | **Consider social, ethical, and environmental implications of the findings**  |
| Document sources **completely** (including **both** reference list and in-text citations) | **Usually** document sources **correctly** | **Sometimes** document sources **correctly** | Document sources, **with limited success** | Student does not meet any of the descriptors | **Critically analyze the validity of information in primary and secondary sources** |

\* You have an opportunity to tell me, how you went above and beyond the level 5-6 criteria. ***Explain*** how you think you went beyond what was explicitly asked for to earn the full level 7.