

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

Date: \_\_\_\_\_ Core: \_\_\_\_\_

## Marine Ecosystem Website Project

We will be designing a website using weebly.com for this tic-tac-toe project. You will be assigned a marine ecosystem to create an informational website designed to introduce the public to your unique ecosystem.

To complete the website you will design at least 4 different pages, the first should be a **home page with the name, picture, and major characteristics of your ecosystem** and for the other three you will pick **3 of the options below**. You must complete at least three of the boxes in a row to complete a tic-tac-toe. The three in a row can be up and down, diagonal, or sideways but you must complete a line of three. Each of your three activities should be on a separate website page. Before you turn in your project sheet make sure that your three chosen activities are clearly circled or highlighted.

### My Ecosystem is

<p>Create a children's book using Storybird about at least one keystone species that lives in your ecosystem. Your book should include:</p> <ul style="list-style-type: none"><li>-The definition of "keystone" species</li><li>-Your specie's ecological niche and description of why it is a keystone</li><li>-Conservation efforts that support your keystone species</li></ul>	<p>Create a digital chart using Google charts comparing potential water quality issues between your ecosystem and another marine ecosystem. Then below the chart analyze the data on your chart. Be sure to discuss factors such as pH, turbidity, temperature, and dissolved gases.</p>	<p>Create a live action or animated video either by filming or using PowToon to explain the ways that humans study or explore your ecosystem. Be sure to include images of any tools used and describe scientific techniques.</p>
<p>Create a map that identifies the locations on Earth where your ecosystem occurs, be sure to color code your map and include a key. Be sure that this map is <u>your own</u> work.</p>	<p>Using thinglink create an interactive image of one specific place your type ecosystem occurs (i.e. a specific coral reef or estuary). You should include the following information on your location:</p> <ul style="list-style-type: none"><li>-It's history</li><li>-the origin of its name</li><li>-how it has changed over time</li><li>-how humans have impacted it</li><li>-what would happen if it disappeared</li></ul>	<p>Create an infographic using piktochart that identifies at least 7 different symbiotic relationships that occur within your ecosystem. For each relationship provide pictures of the species and identify the type of symbiotic relationship that occurs and a description of the symbiotic relationship.</p>
<p>Create a news article or video explaining how humans have impacted your ecosystem. Be sure to include how humans use and depend on the ecosystem as well as how human use and consumption have impacted the ecosystem.</p>	<p>Create a food web that would occur within your ecosystem that contains at least 8 different species and analyze at least one food chain from within your web. To analyze your food chain you should draw it separately and label trophic levels.</p>	<p>Using PowToon create an animated video that compares your ecosystem to a bordering land ecosystem and explain how the two ecosystems interact and depend on each other. Include and explain at least one possible interconnected food web.</p>

### Websites you'll need...

education.weebly.com (to create your website)

storybird.com (for the children's story option)

piktochart.com (for the infographic option)

developers.google.com/chart/ (for the comparison chart option)

discoveryeducation.com (research and brainstorming)

powtoon.com (for animated videos)

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Requirements	4	3	2	1	0
<b>Accuracy/ Appropriateness</b>	<ul style="list-style-type: none"> <li>- Correct in its entirety.</li> <li>- Appropriate explanations, using good support, thoughtful conclusions with details, and organized information showing a logical train of thought.</li> </ul>	<ul style="list-style-type: none"> <li>- Has all components completed, but may have a few incorrect parts.</li> <li>- Mostly appropriate but is lacking some support and details, has basic conclusions, and mostly well-organized information that mostly follows a good train of thought.</li> </ul>	<ul style="list-style-type: none"> <li>- Some parts which are correct and some that are not or missing important components.</li> <li>- Somewhat appropriate but lacks details, has little support, poor conclusions, and is not organized well, showing a scattered train of thought.</li> </ul>	<ul style="list-style-type: none"> <li>-Many incorrect or incomplete components.</li> <li>-Not appropriate or has no support or details, no conclusions, and is very unorganized and hard to follow.</li> </ul>	<ul style="list-style-type: none"> <li>- Not complete or content unrelated to topic.</li> <li>- Responses make no connection to content.</li> </ul>
<b>Level of Understanding</b>	<ul style="list-style-type: none"> <li>- Demonstrates a high level of understanding, demonstrating both the intermediate and basic levels of understanding but additionally able to go further with the information; an ability to evaluate information and use it for creation of information; thoughtful connections are made to new situations and viable predications are made; judgments are argued with proper support.</li> </ul>	<ul style="list-style-type: none"> <li>- Demonstrates a moderate level of understanding, demonstrating a basic level of understanding as well as the ability to apply information to situations and analyze information given; shows information being used in new situations not previously discussed and shows that ability to look at a situation and use the information to find answers to further questions; goes further than the question to make connections between information learned and new information.</li> </ul>	<ul style="list-style-type: none"> <li>- Demonstrates a beginning level of understanding; terminology is used appropriately, who-what-where-why information is answered, and basic connections between concepts are made; identification of already learned information are present.</li> </ul>	<ul style="list-style-type: none"> <li>- Demonstrates a need for more practice.</li> <li>- Attempt at terminology but out of context, limited connections to subject matter and concepts, minimal reflection to information already learned.</li> </ul>	<ul style="list-style-type: none"> <li>- Demonstrates no evidence of understanding the material.</li> </ul>
<b>Theme and Planning</b>	Sticks to an obvious theme throughout project. Well planned out/ designed to captivate interest of reader. Attention to detail is superior.	Evidence of a theme throughout the project. Planning is apparent but lacking in some respects. Attention to detail is above average.	Obvious attempt to stick to a theme throughout the project but not completely upheld. Planning is apparent but lacking. Attention to detail is satisfactory.	Theme is present but not stuck to throughout project due to poor planning. Attention to detail is below average.	No concrete evidence of a theme being supported throughout the project. Pieced together in a random fashion because of insufficient planning.
<b>Creativity/ Originality</b>	<ul style="list-style-type: none"> <li>-Took a risk...unusual and unique.</li> <li>- Utilized 21<sup>st</sup> century technology tools in new and creative ways. Highly creative and insightful. “Wow” factor—high!</li> </ul>	<ul style="list-style-type: none"> <li>Played it safe...stuck to something they knew would work. Utilized 21<sup>st</sup> century technology. Creative and insightful. “Wow” factor—above average.</li> </ul>	<ul style="list-style-type: none"> <li>Based on something well known and adapted to meet needs of topic. Little or no creative use of 21<sup>st</sup> century technology. Evidence of some creativity and insight. “Wow” factor—average.</li> </ul>	<ul style="list-style-type: none"> <li>Mimics something well-known. Graphic representations are all simply copied from internet sources. Lacking creativity and insight. No “wow” factor</li> </ul>	<ul style="list-style-type: none"> <li>No evidence of creativity or insight.</li> </ul>

Averaged Score: \_\_\_\_\_