

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Ocean of Oxygen Presentations

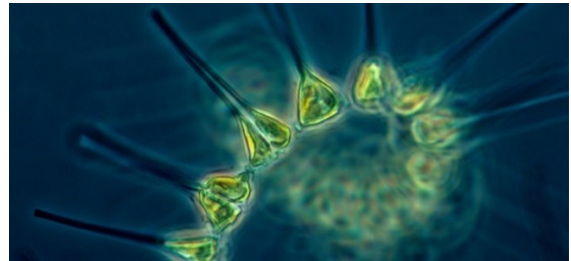


1. Rank at least three of the important photosynthetic organisms in the order you would like to learn more about them. (Write 1–3+ in the blanks below and be ready to research one of them.)

- |   |  |
|---|--|
| ___ Bull kelp ( <i>Nereocystis luetkeana</i> )        | ___ Manatee grass ( <i>Syringodium filiforme</i> )             |
| ___ Caribbean seagrass ( <i>Halophila decipiens</i> ) | ___ Phytoplankton (diatoms, dinoflagellates, etc.)             |
| ___ Cyanobacteria                                     | ___ <i>Prochlorococcus</i>                                     |
| ___ Eelgrass ( <i>Zostera marina</i> )                | ___ Turtle grass ( <i>Thalassia testudinum</i> )               |
| ___ Giant kelp ( <i>Macrocystis pyrifera</i> )        | ___ Wakame ( <i>Undaria pinnatifida</i> ); invasive Asian kelp |
| ___ Limu kuaweuweu ( <i>Umbraulva kuaweuweu</i> )     |  |
| ___ Limu pālahalaha ( <i>Ulva lactuca</i> )           | ___ Other: _____   |

2. Circle your choice above when approved by your teacher. Investigate the questions below about your organism using reliable sources, such as these websites:

- National Marine Sanctuaries: <https://sanctuaries.noaa.gov>
- NOAA: <https://www.noaa.gov>
- National Geographic Education: <https://www.nationalgeographic.org/society/education-resources>



Phytoplankton; Photo: NOAA

- Is it a plant, algae, bacteria or something else?
- Is it a single cell or multicellular?
- What is the name of its photosynthetic pigment(s)?
- How is the organism (or group of organisms) important in its ecosystem(s) and/or to humans?
- What else is interesting and/or important about the organism?
- Bonus questions:
  - In which national marine sanctuaries would you find this organism?
  - How much oxygen does this organism or group of organisms contribute to the atmosphere?
  - How much carbon does it capture?

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# Ocean of Oxygen Presentation Rubric



Title: \_\_\_\_\_

	<b>Maximum Points Possible</b>	<b>Your Score</b> (fill out before presentation)	<b>Teacher Score</b>
<b>Part 1: Content</b>			
Organism's key traits explained, including: <ul style="list-style-type: none"> <li>• What type of organism it is</li> <li>• If it is a single cell or multicellular</li> <li>• Name of its photosynthetic pigment(s)</li> <li>• Other interesting and/or important information included</li> </ul>	20		
How the organism (or group of organisms) is important in its ecosystem(s)/humans (positive and/or negative impacts).	10		
All information accurate and obtained from reliable sources	10		
<b>Part 2: Delivery / Audience Engagement</b>			
Speech delivered clearly at appropriate volume and speed (not too fast, slow, loud or soft)	10		
Speed, volume and voice inflection are varied to engage audience and emphasize key points	10		
Speaker connects with audience through eye contact and does not spend too much time looking at notes or screen	10		
Speaker demonstrates enthusiasm for topic throughout presentation; audience is persuaded by speaker	10		
<b>Part 3: Visuals</b>			
Visuals help to clearly explain concepts	10		
<b>Part 4: Writing Conventions</b>			
Grammatical and spelling conventions followed	10		
<b>TOTALS:</b>	<b>100</b>		

Comments: