*Marine Biology II Board Game Project*

During the next several days, you and your partner/s will be designing your own board game. Remember all those great games you have played? Well, now you can make your own; your own rules, your own design, your own questions! The only thing is, you must relate it to a Marine Biology II topic. First, before you start thinking about your “new” design, brainstorm a list of board games that you like to play, or ones that you have played before.

*Board Game List Topic List*

* Catan
* Trivial Pursuit
* Battleship
* Operation
* Life
* Jenga
* [Clue](http://www.boardgamecentral.com/games/clue.html)
* Monopoly
* Hedbanz
* [Cranium](http://www.boardgamecentral.com/games/cranium.html)
* Guess Who
* What the Meme?
* Food Webs
* Intertidal Zones
* Symbiotic Relationships
* Open Ocean
* Salt Marsh
* Mangroves
* Kelp Forest
* Coral Reef
* Ocean Zones (epi, meso, etc)
* [Deep](http://www.boardgamecentral.com/games/trouble.html) Sea
* Marine Conservation

Now, it’s your turn to create a board game based off of our studies in Marine Biology. If you would like, you can use the board games we talked about in class as a way to get you started on your own idea. Otherwise, you can create your own, unique idea for a board game! Something you need to keep in mind is that board games are fun, interactive, structured and NOT TRIVIA GAMES. Don’t make this Jeopardy or Trivial Pursuit! Use your creative minds to think of ways to relate this material to creating a board game.

Requirements:

Each board game made must have the following items included in the project

* Actual playing board: including game pieces and any necessary devices to complete your designed game
* Game theme, questions, statements, layout, design must be related to your topic
* Rules: The rules must be written out, understandable, and applicable to the game you created
* Directions: how to play the game
* Neat and organized
* Creative, colorful and pretty!
  + Must include at least 10 representative organisms related to your topic
  + At least 20 information facts presented in a creative manner
* Your board game must be playable-you will play each other’s games later this week.

Grading:

Your games will be graded on the following criteria

* Related to topic/theme (accuracy!!)
* Creativity, uniqueness of the game
* Neatness, and organization of the game
* Directions of the game are either **typed up or written clearly** and explained thoroughly
* Rules of the game are described very well, so people know what they can and cannot do!
* Grammar, spelling, and punctuation of directions, rules, and of game board—your game needs to be understandable!
* Playability—if you make it, you are going to want to play it!

What you need to remember as you are thinking about this is to have fun with it and how can you incorporate the information about Marine Ecosystems into your game while making the game fun and educational.

Grading Rubric:

Below is a guideline on how you will be graded for your game board. You should be able to go through this and know exactly what is expected of you to earn the grade you want.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATEGORY | Excellent | Good | Average | Poor |
| **Application of knowledge** | **20 points max**  All information made for the game is correct, relates to your topic, applied in an excellent playable way and demonstrates vast grasp of subject. 20 facts represented! | **16 points max**  All information made for the game is correct, relates to your topic, applied in a good way and demonstrates students grasp of the subject. At least 15 facts represented! | **12 points max**  Most information made for the game is correct, relates to your topic, applied in a playable way and demonstrates basic understanding of knowledge. At least 10 facts represented. | **6 points max**  Some information made for the game is correct, somewhat relates to your topic, applied in an unplayable way and demonstrates little grasp of subject matter. |
| **Attractiveness** | **10 points max**  The game board, all game pieces, and any other game related object is colorful, unique, neat, and has wonderful visual appeal. At least 10 organisms represented! | **9 points max**  The game board, all game pieces, and any other game related object is colorful, neat, and has visual appeal. At least 8 organisms represented! | **7 points max**  The game board, and most of the game related pieces are colorful, neat and a mediocre appeal. At least 6 organisms represented! | **6 points max**  The game board and the game pieces are somewhat colorful, scattered design, and little to no appeal. |
| **Creativity** | **10 points max**  The group put a lot of thought and great strides into making the game interesting and fun to play as shown by creative design, game pieces and/or game objective. | **9 points max**  The group put some thought and some effort into making the game interesting and fun to play as shown by creative design, game pieces and/or game objective. | **7 points max**  The group tried to make the game interesting and fun, but some of the things made it harder to understand/enjoy the game. | **6 points max**  Little thought was put into making the game interesting or fun. |
| **Knowledge Gained** | **10 points max**  Students in group could easily and correctly state several facts about the topic used for the game without looking at the game. | **9 points max**  Students in the group could easily and correctly state 5-10 facts about the topic used for the game without looking at the game. | **7 points max**  Students in the group could easily and correctly state 3-5 facts about the topic used for the game without looking at the game. | **6 points max**  Students could NOT correctly state facts about the topic used for the game without looking at the game. |
| **Grammar, Punctuation, and Spelling** | **10 points max**  No errors on board, rules, directions, cards, or any other part of game. | **9 points max**  1-3 errors on board, rules, directions, cards, OR any other part of game. | **7 points max**  4-8 errors on board, rules, directions, cards, OR any other part of game. | **6 points max**  There were many mistakes grammatically throughout the game and all related material. |
| **Rules** | **10 points max**  Rules and directions were typed up and were understandable that all could easily participate. | **9 points max**  Rules and directions were typed up and were mostly understandable so that all could easily participate with little confusion. | **7 points max**  Rules and directions were written up and were somewhat understandable so that players could participate with some confusion. | **6 points max**  The rules and directions were poorly written or not written at all. |

*Marine Biology II VIDEO Project*

There are a lot of “hot topics” in the ocean today! Choose one and create an inspiring video/Prezi that not only aims to increase awareness, but to drive people to action! Some of these topics include:

* Arctic Warming
* Fish Farming in the US

Some helpful websites:

* marinebio.org
* noaa.gov
* oceanconservancy.org
* opsociety.org
* marinecareers.net
* Plastic Marine Debris/ Microplastics
* Ocean Dumping
* Dolphin Captivity (US & Worldwide)
* Whaling
* Declining Fish Stocks
* Ocean Acidification
* Endangered Marine Mammals
* Man-made Noise Disrupting Marine Life
* World’s Largest Dead Zone
* Alien(non-native) Marine Species
* The State of Long Island South Shore Fishing
* Marine Environmental Education on Long Island
* Field Careers in Marine Biology
* Educational Careers in Marine Biology
* Research Careers in Marine Biology

Make sure you choose something that interests you! DO NOT CHOOSE THIS OPTION IF YOU ARE UNFAMILIAR WITH THE TECHNOLOGY NECESSARY TO COMPLETE VIDEO EDITING!

All video submissions **MUST:**

* Utilize **Prezi, Powtoon, Animaker, iMovie, or Movie Maker**
* Adhere to all reasonable safety (classroom rules) guidelines. Proper safety must be demonstrated!
* Be rated for all audiences (ie “G” movie rating) absolutely no foul language, drug references, cigarettes, alchohol, sexual references, racial, hand gestures, may be present in any part of the video presentation.
* Contain a “title” at the beginning of the video, stating what it is you are depicting (ie. issues surrounding fish farming). It must also contain a “cast” listing at the end of the video. Please use only your FIRST name for casting info. **Each video may not contain more than three cast members.**
* Be 2-5 minutes long. It must not be a “talking head” (lecture) presentation. It must use multiple scenes/ transitions. Use of school space and equipment must come from the permission of the class instructor. **Your video must FIRST be approved by the course instructor.**
* Include at least 4 Topics, under the Main Idea.
* Include at least 2 Subtopics under each Topic.
* Include the results of an AWARENESS survey created by you! (use google forms)
* NOT show a person reading off a script! (You may have flash cards out of sight of the camera or cue cards, but it must be clear that the speaker has a great understanding of his/her topic!
* Include editing to increase the visual appeal of your video, represented by special effects, images, and/or music.
* Include a Works Cited Section, listing all websites used, which should be RELIABLE sources, (“.gov & .edu”)
* Be informative!
* Be entertaining!

Grading Rubric:

Below is a guideline on how you will be graded for your game board. You should be able to go through this and know exactly what is expected of you to earn the grade you want.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATEGORY | Excellent | Good | Average | Poor |
| **Application of knowledge** | **20 points max**  All information represented in the video is correct, relates to your topic, applied in an excellent way and demonstrates vast grasp of subject. | **16 points max**  All information represented in the video is correct, relates to your topic, applied in a good way and demonstrates students grasp of the subject. | **12 points max**  Most information represented in the video is correct, relates to your topic, applied somewhat & demonstrates basic understanding of knowledge. | **8 points max**  Some information made for the video is correct, somewhat relates to your topic, applied somewhat, and demonstrates little grasp of subject matter. |
| **Visual appeal** | **10 points max**  The video is colorful, unique, neat, and has wonderful visual appeal. Extras and editing are superb! | **9 points max**  The video is somewhat colorful, neat, and has some visual appeal. Extras/editing is apparent | **7 points max**  The video is somewhat colorful, neat and has mediocre appeal. Not much editing/extras | **6 points max**  Although the video is complete, there is little or no extras/editing or it may be very difficult to hear some/all cast members |
| **Creativity** | **10 points max**  The group put a lot of thought and great strides into making the video interesting | **9 points max**  The group put some thought and some effort into making the video interesting | **7 points max**  The group put some thought into making the video interesting and fun, but the video seemed disjointed and difficult to understand | **6 points max**  Little thought was put into making the video interesting or fun. |
| **Basics** | **20 points max**  Video contains all 4 topics, 2 subtopics for each topic, & the results of a well thought out awareness survey! | **16 points max**  Video contains almost all 4 topics, 2 subtopics for each topic, & the results of a well thought out awareness survey! 1 or 2 components may be missing. | **12 points max**  Video contains almost all 4 topics, 2 subtopics for each topic, & the results of a well thought out awareness survey! 3 or 4 components may be missing. | **8 points max**  Video is lacking in all basic categories |
| **Safety and Cooperation** | **10 points max**  All safety procedures were followed and the groups was able to work together fabulously! | **5 points max**  Most safety procedures were followed and the groups was able to work efficiently without any major issues | **3 points max**  Not all safety procedures were followed and the group had some issues working together | **1 points max**  The group did not work well together |