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

Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Create a Marine Habitat Project

You may work individually or in groups of up to 3

1. Choose a B.C. marine habitat (rocky shore, sandy shore, deep sea, tide pool, kelp forest, docks and pilings, open water, etc.)

2. Build a model of your habitat (clay, plasticene, playdoh, paper collage, mural, diorama, etc.) Your model must include the following:

* A minimum of 10 organisms (animals & plants)
* Show proper vertical distribution of organisms if applicable
* A key to the organisms (common and scientific names)

3. Include a written description of the following:

* **Habitat**: Describe the habitat that you have chosen, and outline the main limiting factors or stresses that the organisms must deal with as residents of this habitat. Limiting factors include both abiotic (non-living), such as crashing waves, exposure to sun, rain, temperature changes, shifting sands, lack of light, etc. and biotic (living), such as competition for space, availability of food and predators.
* **Adaptations**: Choose a minimum of 3 organisms and describe how they are adapted to deal with the biotic and abiotic factors in their habitat. If you are working in a group, each member is expected to research a minimum of 3 organisms. This section should include the following information for each organism:
* Feeding: Describe what it eats, how it catches its food and how it eats it. Is it a herbivore? Carnivore? Planktivore, etc.?
  + - Predators: What eats it and how does it protect itself from being eaten?
    - Life cycle: Describe how it reproduces. If it has a free-floating planktonic larval form, draw a picture.
    - Physical stresses: Describe structural adaptations (hard protective shell, strong muscular foot or tube feet for suction, streamlined shape, cement attachment or byssal threads to attach to rocks, etc.), and behavioural adaptations (withdraws into shell, hides under rocks or seaweed, etc.) that are used for survival.
* **Food Web:** Draw a food web that includes all the organisms in your habitat. Feel free to include organisms that are not represented in your project.
* **Bibliography:** List all books (author, title, date), and websites used as references.

**Assessment and Evaluation Categories:**

1. **Personal Responsibility:** On-task and focused, productive and collaborative
2. **Information Gathering (Research) Skills:** Breadth and depth of information
3. **Creative Thinking:** Effectiveness of model in terms of visually representing habitat and organisms in an attractive and authentic manner
4. **Knowledge and Comprehension:** Understanding of researched habitat and organisms (assessed orally by teacher)

**Class Generated Assessment Criteria for 3 (fully meets expectations) on a 4 Point Scale:**

|  |  |
| --- | --- |
| **Personal Responsibility**  **(PR)** |  |
| **Information**  **Gathering**  **Skills (IG)** |  |
| **Creative Thinking**  **(CT)** |  |
| **Knowledge &**  **Comprehension**  **(KC)** |  |