

Student Worksheet: Overview of the Hello Reef Aquarium

Name: _____

Date: _____

Class: _____

Aim:

What are the essential materials used in the Hello Reef Aquarium, and how do they support a thriving marine environment?

Do Now Activity:

Imagine you are setting up a saltwater aquarium. What materials do you think are necessary to create a stable environment for marine life? List 3-5 items and explain why they might be needed.

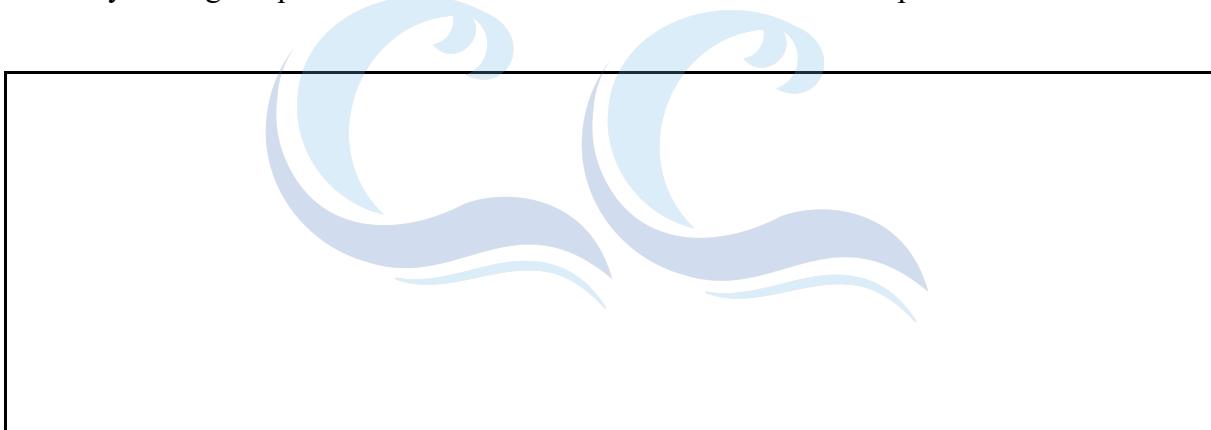
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Understanding the Structure of the Hello Reef Aquarium

1. What materials are typically used to construct aquariums, and why are they chosen?



2. Why do larger aquariums offer more stable water conditions compared to smaller tanks?



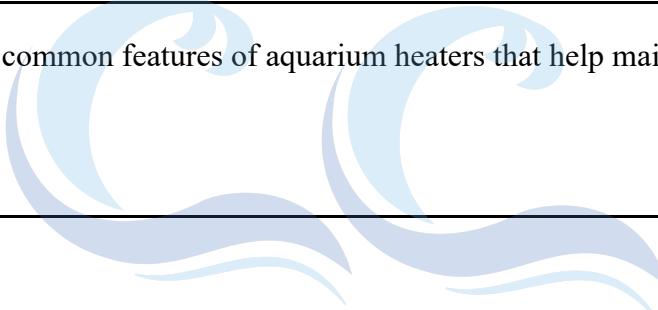
3. What are some challenges associated with maintaining a large aquarium?



Essential Components of the Hello Reef Aquarium

4. Why is temperature regulation important for corals and marine fish?

5. What are some common features of aquarium heaters that help maintain stable water temperatures?



6. How does LED lighting support coral health and photosynthesis?

7. What is the difference between live rock and dry rock? How does each contribute to aquarium stability?

Live Rock:

Dry Rock:



8. How does live sand contribute to a stable marine ecosystem?

9. What are the benefits of using aragonite sand in a reef aquarium?

Filtration & Water Flow

10. What role does activated carbon play in aquarium filtration?

11. Briefly describe the three types of filtration used in the Hello Reef Aquarium.

- **Mechanical Filtration:**

- **Biological Filtration:**

- **Chemical Filtration:**

12. How does proper water flow help maintain a healthy aquarium environment?

13. What technology is used in the Hello Reef Aquarium to create natural water movement?

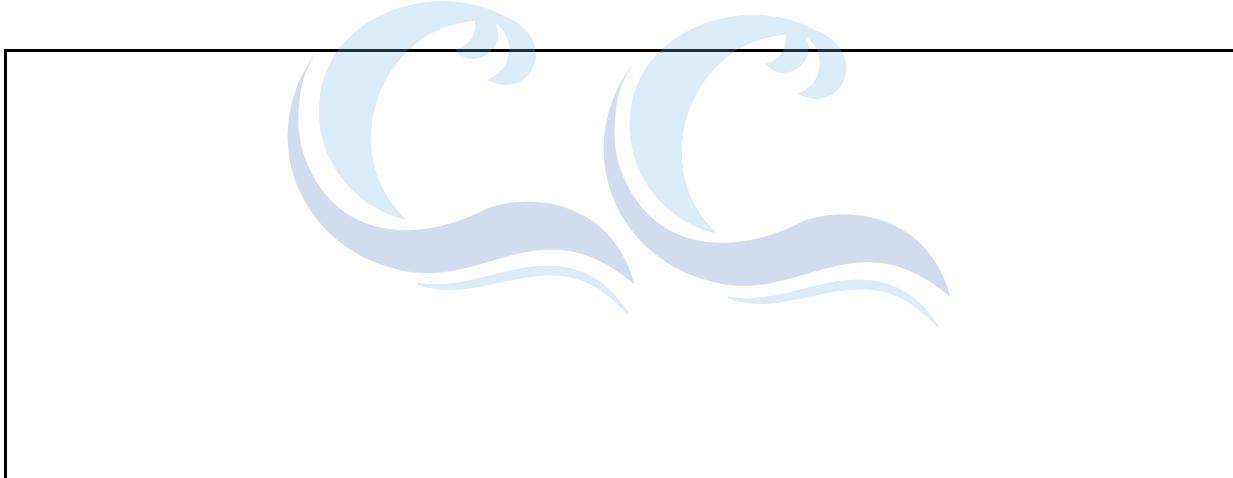


Water Chemistry and Salinity

14. Why is it important to use purified water instead of tap water in a reef aquarium?

15. What is an RO/DI system, and how does it help in maintaining water quality?

16. What are the key components of Aquaforest Reef Salt, and why are they important for corals?



17. How is salinity measured in the Hello Reef Aquarium?

Exit Ticket:

Summarize in 2-3 sentences why it is important to carefully manage the materials and water quality in a reef aquarium.

