| **Topic/Objectives:** 8-2 Biological Classification; (1) Describe the system of classification used by biologists; (2) Classify organisms based on their characteristics; (3) Analyze the similarities and differences between major groups of organisms; (4) Explain how the structures of marine organisms support their functions | **Name:**<br>**Date:**<br>**Period:** |
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**Essential Question:** How are marine organisms classified according to their similarities and differences?

| **Questions:** | **Notes:** |
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| | The _____ community is a very diverse community, including:<br>◦ Phytoplankton – plant-like plankton<br>◦ Zooplankton – _____ -_____ plankton<br>◦ _____ – fungi-like plankton<br>Some plankton spend all their lives as part of the plankton community, others only spend their _____ or _____ stages among the plankton.<br>Due to plankton diversity scientist use a general system to classify organisms, which we understand as _____ _____. |
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| | The science of classifying organisms is called _____.<br>◦ Since new data on organisms and relationships between groups are continually being discovered taxonomy continually changes.<br>◦ Taxonomy uses a _____ _____ with broad categories into which smaller ones fit.<br>◦ Levels of classification include: [Domain], _____, Phylum, Class, Order, Family, Genus and _____.<br>◦ A two-name naming system (_____ _____) is used to provide an organisms scientific name.<br>Scientific names are always <u>underlined</u> or *italicized*.<br>The _____ is the first name and is capitalized<br>The _____ name is the second name and always lower case |
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| | When categorizing animals, scientists find it useful to group them together. Relationships between organisms and features that differentiate between groups can be shown in a diagram known as the _____ _____ _____.<br>Each _____ represents the organism's development over time, where the trunk represents a previous _____ _____. |
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| **Summary:** |
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