Fishes Note Guide

Marine Fishes:

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Basic Characteristics of all fishes:

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Types of Marine Fishes:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

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2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

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3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

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Cartilaginous Fishes (Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

* + Sharks, rays, skates, and ratfishes
* **Basic Characteristics**:
	+ Skeleton of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Heterocercal tail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Mouth is always \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scales
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ 5-7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ open directly into the water in most species
	+ *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*in many species (openings on head used to bring water for respiration without having to open the mouth)
	+ Males in most species have *\_\_\_\_\_\_\_\_\_\_\_\_\_;* projections of the anal fin used in copulation
	+ Buoyancy aided by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bony Fishes (Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

* **Basic Characteristics**:
	+ Skeleton composed of \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*tail (two lobes of equal size) that provides forward thrust
	+ Flat bony scales (*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*)
	+ Bony *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*covers the gills
	+ *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* used for buoyancy control (absent in some demersal species)
	+ *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* for sensory information
	+ Over 31,000 species known (marine and freshwater), about half of all known vertebrates species

Bony Fishes: 2 Types

Assignment:

* Make a poster comparing and contrasting Chondrichthyes and Osteichthyes.
* List all the characteristics of all fish
* For each class of fish, describe their gills, tail, buoyancy, scales, mouth position
* Also list at least 2 specific species for each class including: scientific name, common name, habitat, conservation status. Include a picture (drawn or printed out with photo credits)

Total points possible = 35 DUE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_