

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

Quiz #2

1. The skull is a complex composed of three cranial components. Name one of these components:
2. Match the following caudal fin shapes to their definition:  
\_\_\_ notochord projects into the lower lobe of the tail      A. Diphyccercal  
\_\_\_ notochord extends to the base of the caudal fin      B. Hypocercal  
\_\_\_ notochord extends to the tip of the caudal fin      C. Heterocercal  
\_\_\_ notochord projects into the upper lobe of the tail      D. Homocercal
3. In sharks, the \_\_\_\_\_ extend from the medial surface of the visceral gill arches and function as straining devices preventing food from entering the respiratory chambers.
4. Sharks' fins are composed of three primary structures; name all three:
5. The typical fish body plan consists of a head, trunk, and tail; a narrowed section of the posterior body called the \_\_\_\_\_ extends between the trunk and tail.
6. In fish, the mouth structure is formed by four bones; name two of them:

## WORD BANK

|                           |                          |                            |
|---------------------------|--------------------------|----------------------------|
| Acetabular surface        | Head                     | Perilymphatic foramina     |
| Alisphenoid               | Hemal arch               | Pharyngeobranchial         |
| Anguloarticular           | Hemal canal              | Postcleithrum              |
| Annuli                    | Hemal spines             | Posterior dorsal fin       |
| Anterior dorsal fin       | Heterocercal             | Posterior naris            |
| Anterior naris            | Homocercal               | Postorbital process        |
| Basal plate               | Humerus                  | Postparietal               |
| Basal pterygiophore       | Hyoid arch               | Posttemporal               |
| Basibranchial             | Hyomandibula             | Precerebral cavity         |
| Basihyal cartilage        | Hyomandibular cartilages | Premaxilla                 |
| Basitrabecular process    | Hypobranchial            | Preoperculum               |
| Basopophyses              | Hypocercal               | Preorbital process         |
| Branchial arches          | Ilium                    | Procoracoid                |
| Branchial septa           | Interoperculum           | Prootic                    |
| Branchiostegal rays       | Ischium                  | Propterygium               |
| Capitulum                 | Labial cartilage         | Pterygiophores             |
| Carotid foramen           | Lateral ethmoid          | Pubioischial bar           |
| Caudal fin                | Lateral line pores       | Pubis                      |
| Caudal peduncle           | Lepidotrichia            | Pulp cavity                |
| Ceratobranchial           | Malleus                  | Quadrangle                 |
| Ceratohyals               | Mandibular cartilage     | Radial pterygiophores      |
| Ceratotrachia             | Maxilla                  | Radius                     |
| Chondrocranium            | Meckel's cartilage       | Ribs                       |
| Cleithrum                 | Mesopterygoid            | Rostral fenestrae          |
| Coracoid bar              | Metapterygium            | Rostral keel               |
| Ctenoid scales            | Mouth                    | Rostrum                    |
| Dentary                   | Nasal capsules           | Scapula                    |
| Denticles                 | Neural arch              | Scapulocoracoid bar        |
| Dermatocranium            | Neural spines            | Splanchnocranium           |
| Diapsid                   | Notochord                | Suboperculum               |
| Dihyercal                 | Occipital condyles       | Subtemporal fenestra       |
| Dorsal fins               | Opercular flap           | Supracleithrum             |
| Dorsal intercalary plates | Operculum                | Supraorbital crest         |
| Dorsal ribs               | Optic foramen            | Suprascapular cartilage    |
| Ectopterygoids            | Orbital process          | Synapsid                   |
| Endolyphatic fossa        | Otic capsules            | Teeth                      |
| Euryapsid                 | Palatines                | Tibia                      |
| External nares            | Parachordals             | Trabeculi                  |
| Eye orbits                | Parapophysis             | Trunk                      |
| Femur                     | Parasphenoid             | Tuberculum                 |
| Fibula                    | Parietals                | Ulna                       |
| Foramen magnum            | Pectoral fins            | Ventral intercalary plates |
| Gill rakers               | Pectoral girdle          | Ventral ribs               |
| Gill rays                 | Pelvic fins              | Vertebral arch             |
| Glenoid surface           | Pelvic girdle            | Vomer                      |