Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Quiz #2

1. The skull is a complex composed of three cranial components. Name one of these components:

1. Match the following caudal fin shapes to their definition:

\_\_\_ notochord projects into the lower lobe of the tail A. Diphycercal

\_\_\_ 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

1. 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.
2. Sharks’ fins are composed of three primary structures; name all three:

1. 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.
2. In fish, the mouth structure is formed by four bones; name two of them:

WORD BANK

Acetabular surface

Alisphenoid

Anguloarticular

Annuli

Anterior dorsal fin

Anterior naris

Basal plate

Basal pterygiophore

Basibranchial

Basihyal cartilage

Basitrabecular process

Basopophyses

Branchial arches

Branchial septa

Branchiostegal rays

Capitulum

Carotid foramen

Caudal fin

Caudal peduncle

Ceratobranchial

Ceratohyals

Ceratotrichia

Chondrocranium

Cleithrum

Coracoid bar

Ctenoid scales

Dentary

Denticles

Dermatocranium

Diapsid

Dihycercal

Dorsal fins

Dorsal intercalary plates

Dorsal ribs

Ectopterygoids

Endolyphatic fossa

Euryapsid

External nares

Eye orbits

Femur

Fibula

Foramen magnum

Gill rakers

Gill rays

Glenoid surface

Head

Hemal arch

Hemal canal

Hemal spines

Heterocercal

Homocercal

Humerus

Hyoid arch

Hyomandibula

Hyomandibular cartilages

Hypobranchial

Hypocercal

Ilium

Interoperculum

Ischium

Labial cartilage

Lateral ethmoid

Lateral line pores

Lepidotrichia

Malleus

Mandibular cartilage

Maxilla

Meckel’s cartilage

Mesopterygoid

Metapterygium

Mouth

Nasal capsules

Neural arch

Neural spines

Notochord

Occipital condyles

Opercular flap

Operculum

Optic foramen

Orbital process

Otic capsules

Palatines

Parachordals

Parapophyisis

Parasphenoid

Parietals

Pectoral fins

Pectoral girdle

Pelvic fins

Pelvic girdle

Perilymphatic foramina

Pharyngeobranchial

Postcleithrum

Posterior dorsal fin

Posterior naris

Postorbital process

Postparietal

Posttemporal

Precerebral cavity

Premaxilla

Preoperculum

Preorbital process

Procoracoid

Prootic

Propterygium

Pterygiophores

Pubioischiadic bar

Pubis

Pulp cavity

Quadrate

Radial pterygiophores

Radius

Ribs

Rostral fenestrae

Rostral keel

Rostrum

Scapula

Scapulocoracoid bar

Splanchnocranium

Suboperculum

Subtemporal fenestra

Supracleithrum

Supraorbital crest

Suprascapular cartilage

Synapsid

Teeth

Tibia

Trabeculi

Trunk

Tuberculum

Ulna

Ventral intercalary plates

Ventral ribs

Vertebral arch

Vomer