What characteristics make a fish recognizable?

- me

"Fish" refers to anything in the three categories

Agnatha (<u>jawlo</u>Mfishes) Chondrichthyes (cartilaginous fishes) Osteichthyes (<u>bory</u> fishes)

## Key Characteristics Gills

Single-loop <u>lood</u> circulation Vertebral Column Body Gills Gills are made up of gill filaments (finger-like projections by which  $Q_{A}$ ) enters and leaves the 1000

Gill slits are where the water exits the fish

## Fish Heart

1. Sinus Venosus- the collection <u>Chamber</u> that acts to reduce the <u>resistance</u> of blood flow into the heart

2. Atrium- Chamber is large and has thin,  $\underline{MUSCullar}$  walls

3. Ventricle- thick walled <u>Jom</u> with enough muscle to contract strongly

4. Conus arteriosus- a  $2^n pump$  that smoothes the pulsation and adds more pressure

The concentration of salt in the sea water is 3 times that of the tissues of the fish

The fish always then <u>OSL</u> water through <u>OSMOSi</u>S

They need to constantly drink water

Freshwater fish tend to take in water by  $O_{Smosis}$  and this dilutes the ions so they need to take them from their CNUCCOMM

Kidneys are made of thousands of <u>nephons</u> (tubelike units that regulate the body's <u>Salt</u> and water)

Spawning- male and female gametes are released  $\underline{neo}$  one another in the  $\underline{(noter)}$ .