

# Notes 13

Oviparous: lay eggs  
Ovoviviparous: eggs stay  
Viviparous: baby survive

Chordata: pharyngeal pouches (become gills) <sup>with</sup> <sub>man</sub>  
tail which extends beyond anus

Most Chordates are vertebrates

**NOT VERTEBRATES**

Cerebrum: thinking  
voluntary activities

sea squirts or tunicates

Chordate Anatomy: dorsal nerve cord  
part of the nervous system

Notochord: cartilage, body support

All vertebrates are chordates  
but not all chordates are vertebrates

vertebrate: backbone endoskeleton  
Spinal Cord (hollow, dorsal)  
Front develops brain

Phylum Chordata has a dorsal hollow nerve cord  
Fish: 1 loop circulation  
amphibians: 2 heart

Fish have a 2 chamber  
blood goes over the gills  
Gill covers: operculum  
lung fish organs breathe

Excretion: removing  
off things