

# Cyclostomata Classification-2

Class Cyclostomata includes about 50 species of living jawless fishes. They are classified into 2 major divisions - *Petromyzoniformes* and *Myxiniiformes*. The class Cyclostomata was so named because they have circular mouth. It has been classified into two orders.

## Order 1. *Petromyzontiformes*

1. Mouth surrounded by ventral tunnel
2. Nasal sac not connected with mouth
3. 7 pairs of gill slits
4. Gills open into separate respiratory pharynx
5. Dorsal fin well developed
6. Horny teeth
7. Ear has 2 semicircular canal
8. Marine or fresh water both
9. Eggs many, development indirect

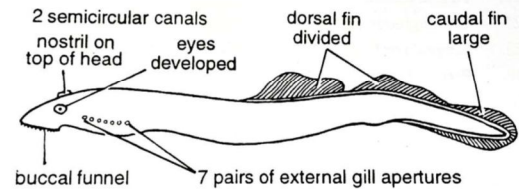


Figure 1. *Petromyzon*

Examples: *Petromyzon*, *Entosphenus*,

## Order 2. *Myxiniiformes*

1. Mouth nearly terminal
2. Nasal sac opens on the pharynx
3. 10-14 pairs of gills
4. Dorsal fin feeble or absent
5. Eggs few
6. Ear has only one circular canal
7. Development direct
8. Hagfish all 15 species are marine

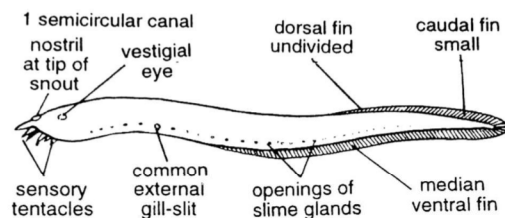


Figure 2 *Myxine*

Examples: *Myxine*, *dellostoma*