**Aquatic Invertebrate**

**LAB(5)**

**Phylum: Arthropoda**

**Subphylum: Crustacea**

**1-Class: Branchiopoda**

**Order: Cladocera**

**Genus: *Daphnia***

**2-Class: Maxillopoda**

**Order: Cyclopoida**

**Genus: *Cyclops***

**3-Class: Malacostraca**

**Order: Decapoda**

**Genus: *Cambarus***

**Genus: *Daphnia* (water fleas)**

-Jerky swimming movements

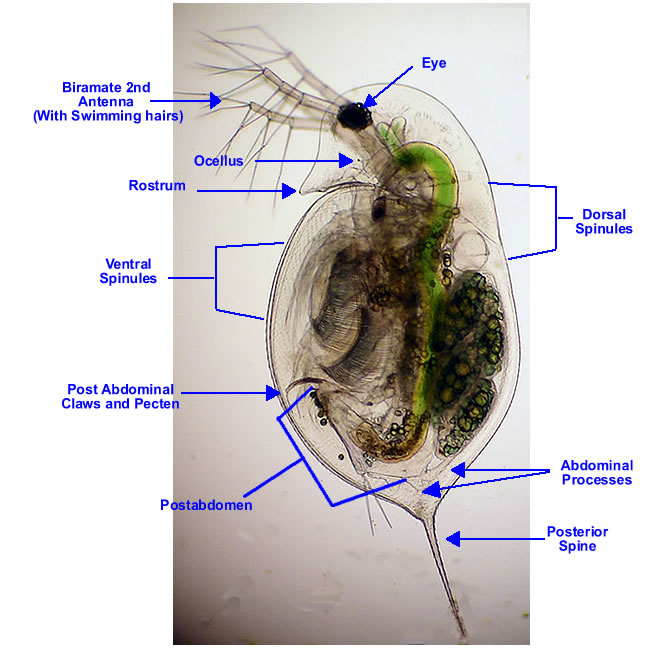
- Transparent and kidney shaped body enclosed by carapace made of chitin and polysaccharide

- Head have a single large compound eye and two pairs of slightly branched antennae

-Body including (4-6)pairs of thoracic appendages for feeding and respiration

-Abdomen have two large claws used for cleaning

-Males smaller size than female , larger antennules and first legs which are armed with hook used in clasping

[](https://www.google.iq/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjBqbTB1OfSAhXJ6CwKHSJfBvsQjRwIBw&url=https://supasi.wordpress.com/daphnia/&psig=AFQjCNGKBrbxZU3nfw41p6e7CEkB_Pfl5g&ust=1490187817582242)

***Daphnia***

**Genus: *Cyclops***

- Single eye in the middle of its head with two pairs of antennae

-The brodly oval front section comprises the head and the first five thoracic segment with five pairs of legs

-The hind part is slimmer and made up of the sixth thoracic segment and four legless pleonic segment

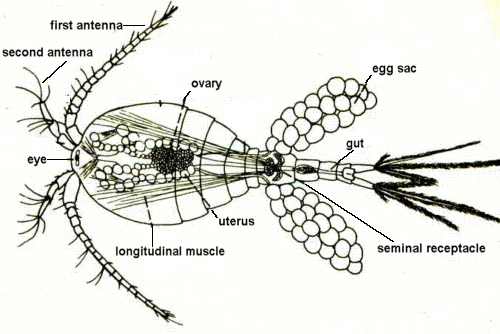
-Two caudal appendages project from the rear called furca

-Males used the long two first legs for gripping the females during mating

-The females carries the eggs in two small sacs on her body

[](https://www.google.iq/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwiVv_6lmO_SAhVKCpoKHfh9CAkQjRwIBw&url=https://www.aquaportail.com/fiche-invertebre-2682-cyclops-bicuspidatus.html&psig=AFQjCNHL07N4ZlDFwEvokj774_bTFU1oqg&ust=1490446540269841)

***Cyclops***

[](http://www.google.iq/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjaneqIme_SAhWxZpoKHU1WBZMQjRwIBw&url=http://www.keyword-suggestions.com/Y3ljbG9wcyBjb3BlcG9k/&psig=AFQjCNEYLNGICS8pmZ4JCJjpp0EY5Pxu8A&ust=1490446772141731)

**Genus: *Cambarus* (crayfish)**

- Body is divided into three regions: head,thorax and abdomen

-Head and thorax covered by a carapace

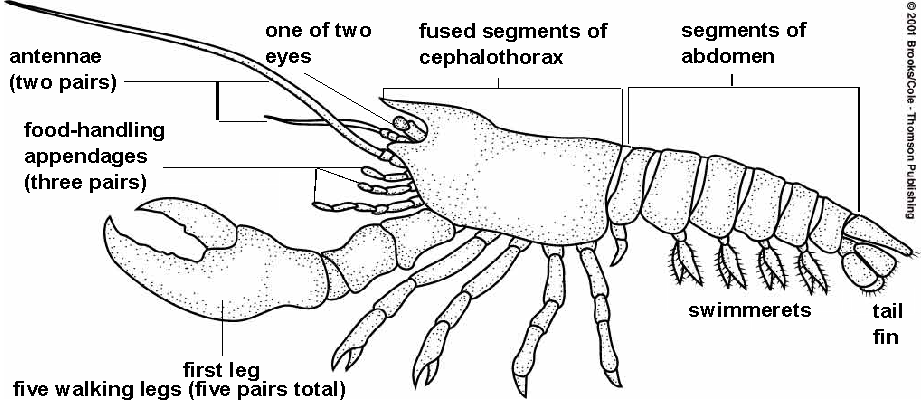
- Head bears large stalked compound eyes , two pairs of antennae for sensory and three pairs of smaller appendages for feeding or respiration

-Thoracic segments bears five pairs of walking legs called (pereopods) the first three pairs claw bearing for feeding and defense

- Abdominal segments bears six pairs of appendages .the first five pairs called (pleopods) for swimming or respiration . the last pair flat appendages called (uropods) forming a tail

[](http://www.google.iq/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjLgcO-3efSAhVEFSwKHVIJDYAQjRwIBw&url=http://www.great-lakes.net/envt/flora-fauna/invasive/rusty.html&psig=AFQjCNGxh4ih0Hu7F1uAjdT5PoqFg6Ym2w&ust=1490190239855308)

***Cambarus***

[](http://www.google.iq/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjesMjW3OfSAhWFZCwKHRxAD88QjRwIBw&url=http://keywordsuggest.org/gallery/221549.html&psig=AFQjCNG4BKlELuFNgVOjzVNXOar5HE-iPQ&ust=1490189917503843)