Is it a dragonfly or a damselfly??

Drawings by Amanda Whispell



Dragonflies and Damselflies

What is the difference?

Dragonflies and damselflies both belong to the same order – **Odonata**. Dragonflies belong to the suborder **Anisoptera** and damselflies **Zygoptera**.

There are a lot of **similarities** between the two groups:

- Both lay their eggs in aquatic environments
- Both live underwater as nymphs (babies are call nymphs) and then emerge from the water with wings when they reach their adult forms
- Nymphs of both can shoot out their 'bottom jaw' to capture prey
- Both are carnivorous as nymphs and as adults
- Males of some dragonfly and damselfly species are territorial
- Males of both have two sets of genitalia (!!!!!)

There are also a lot of differences:

Nymphs Differences:

 Nymphs breathing – damselfly nymphs breathe using structures called 'caudal gills' (right) while dragonfly nymphs breathe through internal rectal gills

Adult Differences:

- Dragonflies tend to lay their eggs directly in the water while damselflies lay theirs inside of vegetation
- Damselflies will form large groups when laying eggs while dragonflies tend to do so as mating pairs or while solitary

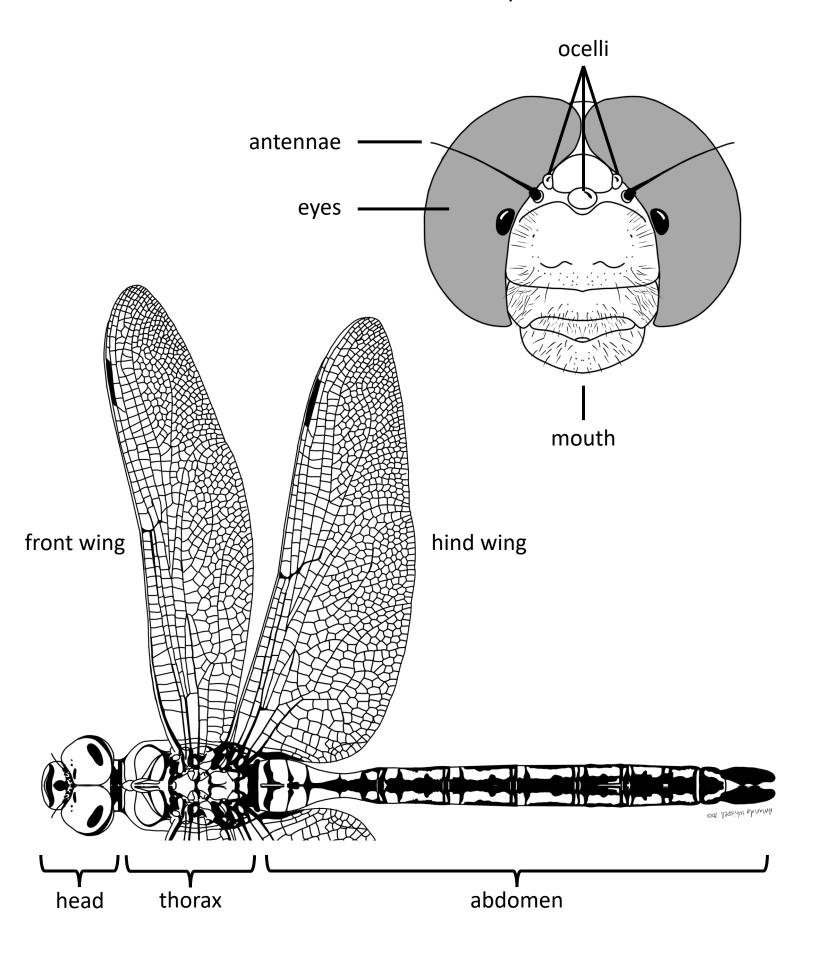
Those are just a few of the similarities and differences – there are a **whole lot more** outlined in the remainder of the activity.

Go through the packet and color in the drawings to help you learn more about these two super awesome groups!

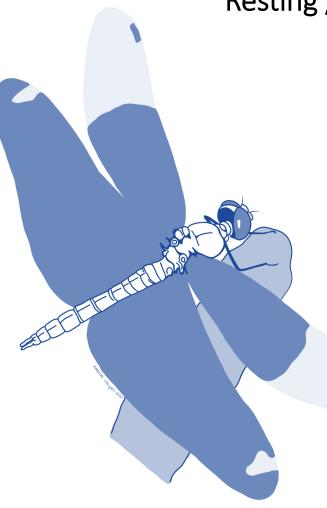
caudal gills

Dragonflies and Damselflies

General Anatomy



Resting / Flying Behavior



Dragonflies

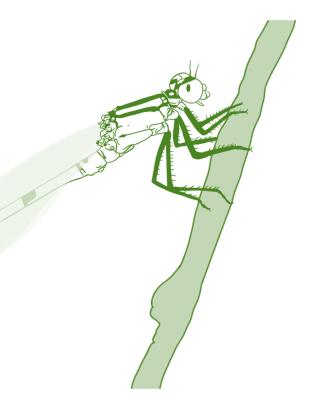
Typically rest with their wings outstretched

Tend to fly very quickly and you will not be able to see their wings because they move them so fast.

Damselflies

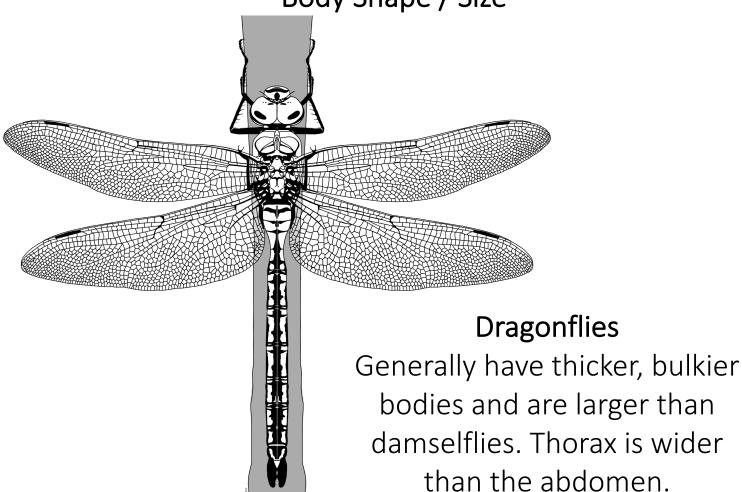
Typically rest with their wings folded together above or over their abdomens (with exceptions)

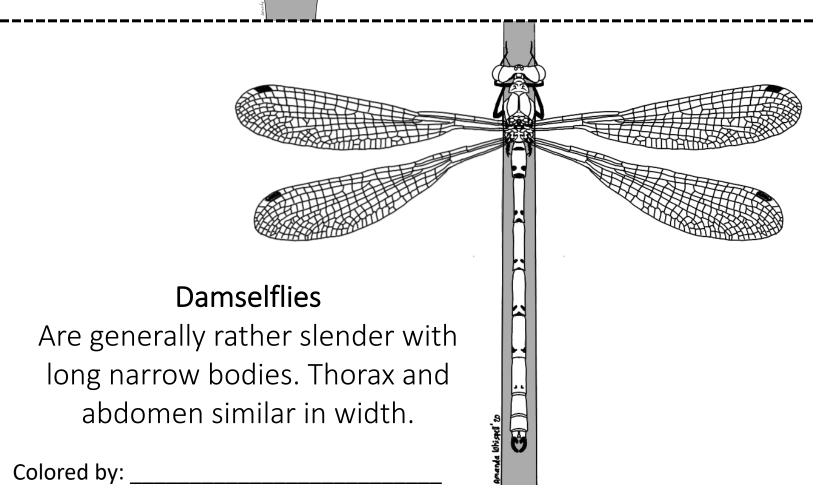
Tend to fly more slowly and you can usually see their wings fluttering.



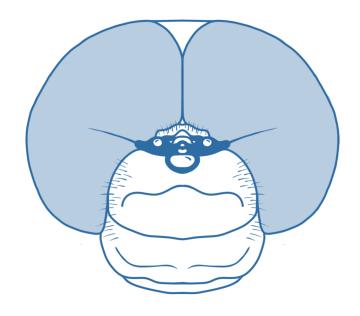
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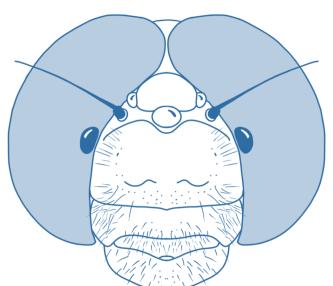


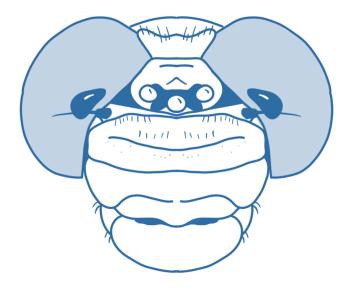




Eye Position and Head / Face Shape





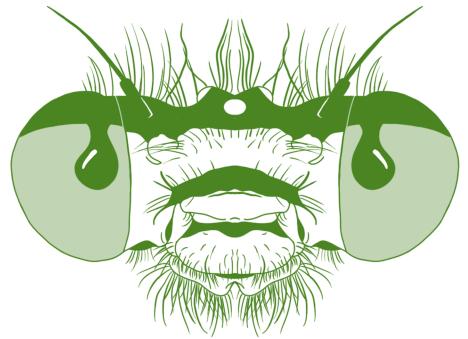


Dragonflies

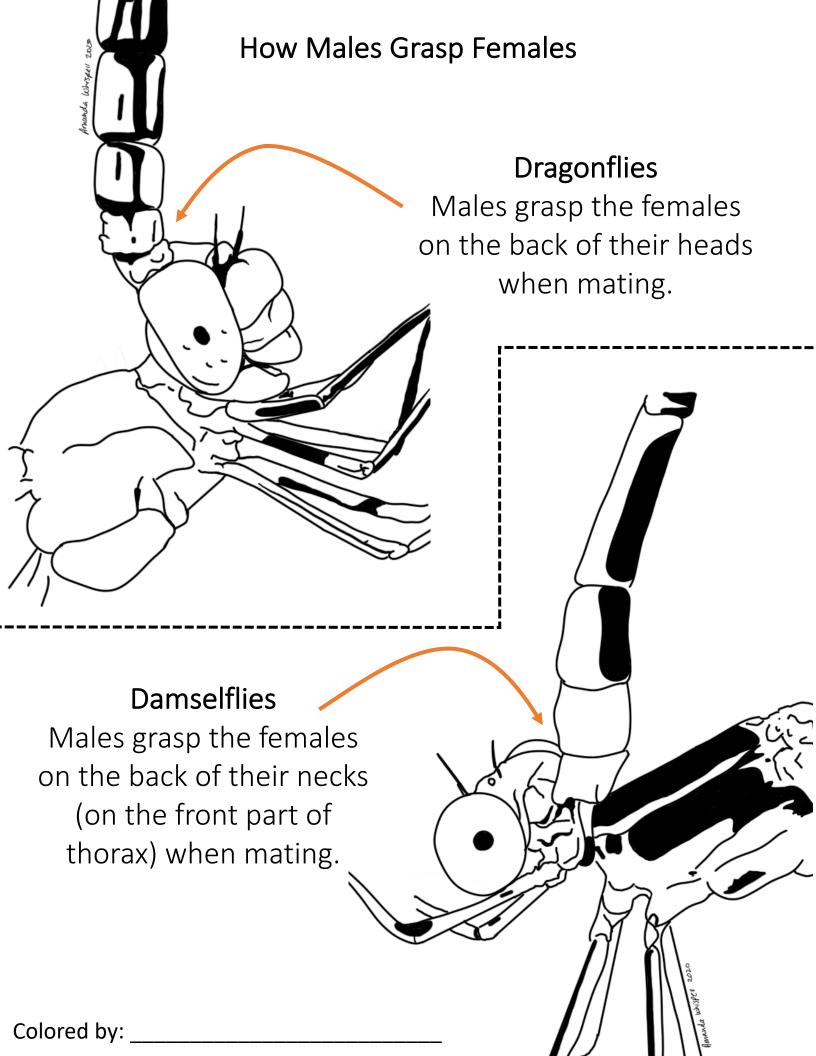
Eyes are very large and generally wrap around most of the head. In most the eyes actually touch or nearly touch in the middle. Overall the head shape will be rounded.

Damselflies

Eyes are large but never touch each other – there is always a large gap. Overall head shape will be wide and short.



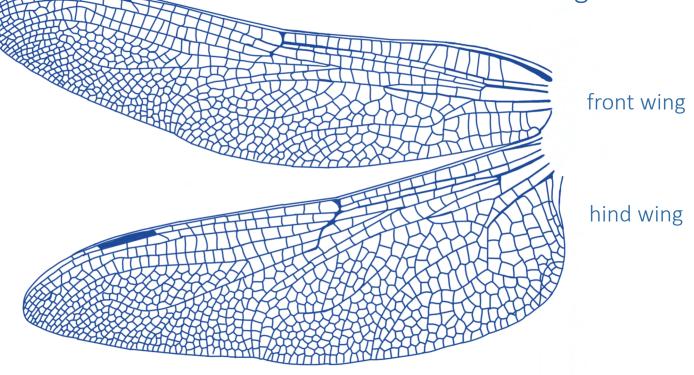
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Wing Shape / Size

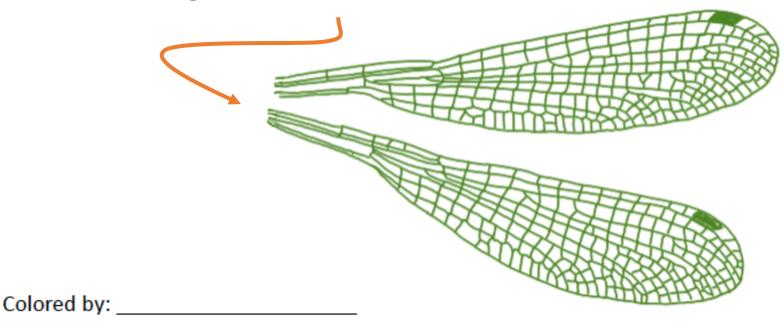
Dragonflies

Front and hind wings differ in size and shape – the hind wings is larger and broader at the base than the front wings.



Damselflies

Front and hind wings are equal in size and shape. Both wings are more narrow at the base.



Nymph (aka Naiad) Body Form

