

Write scientific definitions for words we have studied.

<input checked="" type="checkbox"/> Abdomen	<input checked="" type="checkbox"/> Gizzard	<input checked="" type="checkbox"/> Proboscis
<input checked="" type="checkbox"/> Adaptation	<input checked="" type="checkbox"/> Head	<input checked="" type="checkbox"/> Pupa
<input checked="" type="checkbox"/> Arachnids	<input checked="" type="checkbox"/> Hemolymph	<input checked="" type="checkbox"/> Siphoning
<input checked="" type="checkbox"/> Antennae	<input checked="" type="checkbox"/> Homing	<input checked="" type="checkbox"/> Spiracles
<input checked="" type="checkbox"/> Arthropod	<input checked="" type="checkbox"/> Incomplete	<input checked="" type="checkbox"/> Sponging
<input checked="" type="checkbox"/> Aquatic (Marine)	<input checked="" type="checkbox"/> Insects	<input checked="" type="checkbox"/> Taxonomy
<input checked="" type="checkbox"/> Binomial nomenclature	<input checked="" type="checkbox"/> Insecticides	<input checked="" type="checkbox"/> Terrestrial
<input checked="" type="checkbox"/> Biological control	<input checked="" type="checkbox"/> Invertebrates	<input checked="" type="checkbox"/> Thorax
<input checked="" type="checkbox"/> Cerci	<input checked="" type="checkbox"/> Kingdom	Other terms:
<input checked="" type="checkbox"/> Chilopoda	<input checked="" type="checkbox"/> Larva	<input checked="" type="checkbox"/> Domain
<input checked="" type="checkbox"/> Complete	<input checked="" type="checkbox"/> Linnaeus	<input checked="" type="checkbox"/> Diurnal
<input checked="" type="checkbox"/> Crop	<input checked="" type="checkbox"/> Molting	<input checked="" type="checkbox"/> Nocturnal
<input checked="" type="checkbox"/> Crustaceans	<input checked="" type="checkbox"/> Nymph	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Defense Mechanisms	<input checked="" type="checkbox"/> Ocelli (Ocellus)	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Diplopoda	<input checked="" type="checkbox"/> Ovipositor	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Entomology	<input checked="" type="checkbox"/> Parasite	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Exoskeleton	<input checked="" type="checkbox"/> Pheromones	<input type="checkbox"/> _____
<input checked="" type="checkbox"/> Ganglions (Ganglia)	<input checked="" type="checkbox"/> Phylum	<input type="checkbox"/> _____

GROUP 1
GROUP 2
GROUP 3
GROUP 4

Part E: How do they compare?

How do they compare?	<u>Lubber Grasshopper</u>	<u>Hermit Crab</u>
Arthropod Class	Insect	Crustacean
Body Segments - How many? Describe them.	3 segments – Head, Thorax, Abdomen	3, but the first two are fused together
Legs - How many? How big? Describe them.	6 legs Front 2 prs– Walking Last pair - Jumping	5 pairs (10 total) 1 st Pair – Pinchers 2 nd – 3 rd – Walking 4 th - 5 th - Shell
Mouthparts - What type and how are they used?	Chewing mouthparts for eating plants	Maxilloped for grinding; soft and feathery to pick up food
Locomotion - How does it move?	Walks, crawls, climbs (this species is not able to fly/glide)	Walks, crawls, climbs, burrows
Other Features - Colors? Defenses? Cool appendages?	Spikes on legs/feet for defense or traction Carapace – Shield over thorax	Shell for protection Camo legs to hide Pinchers for defense

Arachnids
Crustaceans
Chilopoda
Diplopoda
Insects

Part G on notes

Part H: Section 3.20– Insect Reproduction

Read pages 122-124.

1. What do we call the physical transformation an insect makes during its life cycle? **METAMORPHOSIS**

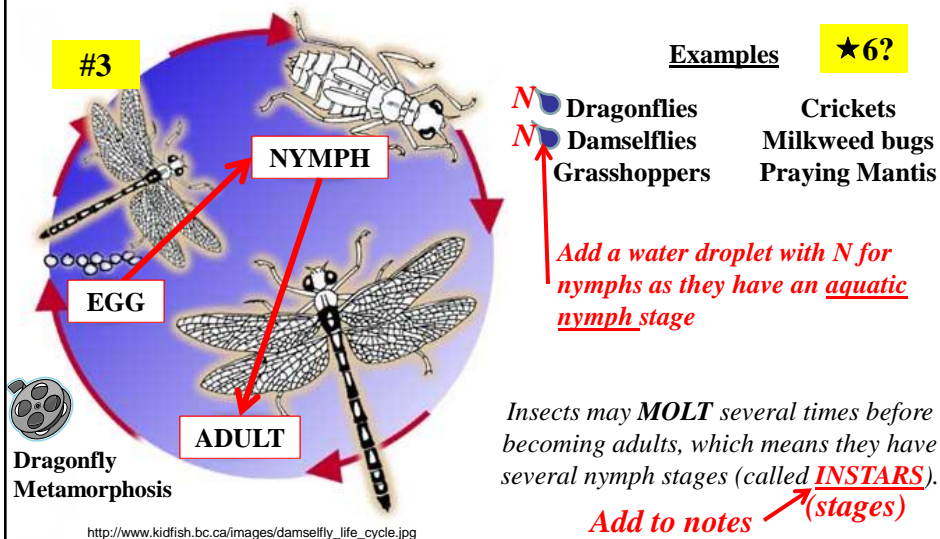
2. What type of insects use asexual reproduction?

APHIDS & SCALE INSECTS



Incomplete Metamorphosis = 3 Stages

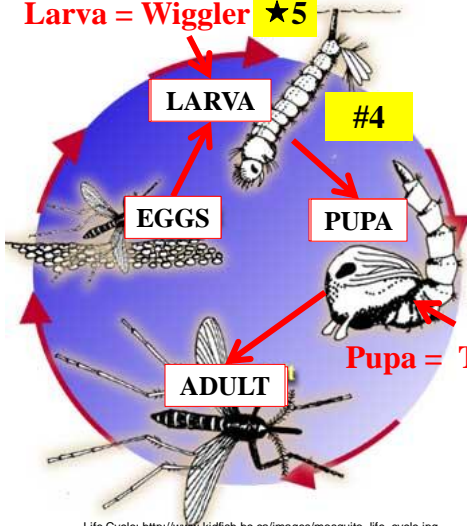
Young insects look like the adults, but do not have functional wings and cannot reproduce.



Complete Metamorphosis = 4 Stages

Young insects do not look like the adults,
do not have wings, and cannot reproduce.

Larva = Wiggler ★5



Life Cycle: http://www.kidfish.bc.ca/images/mosquito_life_cycle.jpg
Mosquito Images: <http://www.hudsonregional.org/mosquito/index.htm>

Examples ★6?

Butterflies	Mosquitoes L&P
Flies	Ants
Bees	Beetles

Mosquitoes & midges have an aquatic larval and pupal stage.

Monarch Metamorphosis

These insects may have several **INSTARS** during their **LARVAL** stage as they grow.

What do we call the larval stage of a Japanese beetle?

Japanese Beetle Life Stages



★5 GRUB WORMS



What do we call the larval stage of a house fly?

★5 Maggots



Add all examples to #5 on your note worksheet ...

Other Larva Examples → Butterfly = caterpillar

Other Pupa Examples → Butterfly = Chrysalis
Moths = Cocoon
Beetles & flies = Pupa case

Beetle Image: <http://turf.uark.edu/images/jblifestages%20small.jpg>

Maggot Image: <http://www.abc.net.au/science/news/img/health/maggots180804.jpg>

Bug Blitz Time ... If your notes & vocab are done!

You will need to use your best bug hunting skills to see what you can find.

Capture pictures rather than bugs if possible.

If you see a Monarch and can catch it, bring it to me to tag before you release it.