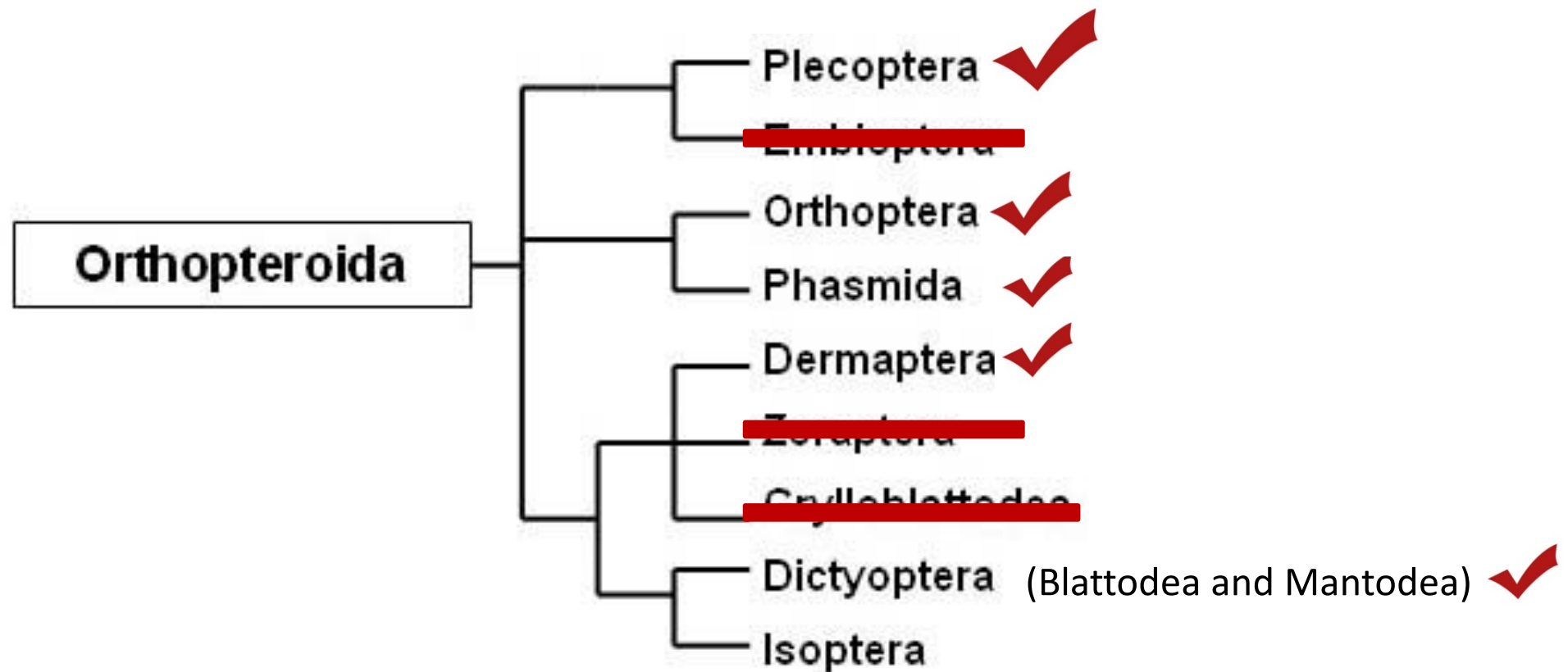


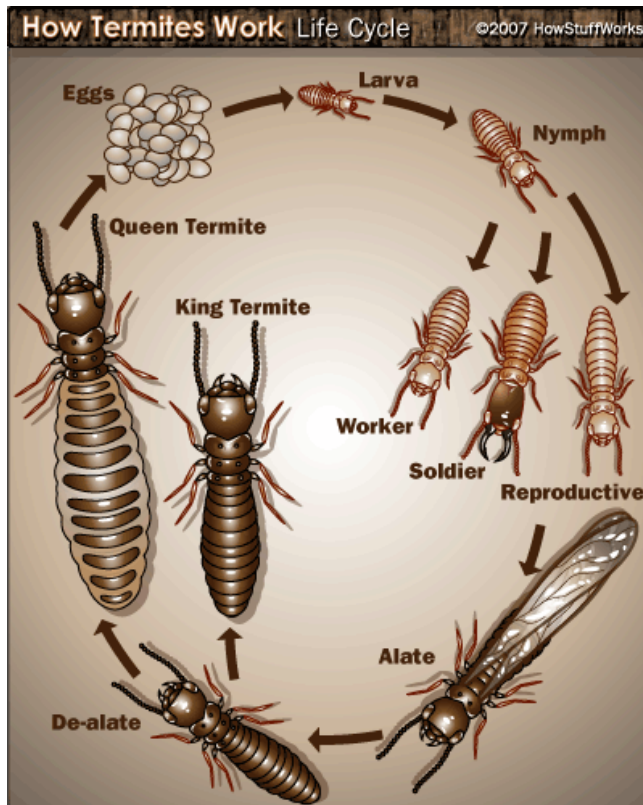
- Pterygota: Winged True Insects
 - Paleoptera: Ephemeroptera and Odonata
 - Neoptera: wings fold flat onto back
 - Exopterygota (simple metamorphosis)
 - Orthopteroida (mandibulate mouthparts, large anal lobe in the hind wing)



ORDER: Isoptera – Termites

- Hormones and inhibitory pheromones secreted by the reproductive and soldiers determine caste in male and female nymphs; they can develop into any caste.
- Wings are similar in size (isoptera) in the reproductive (the caste with wings)
- soft-bodied except for the king and queen.

Reproductives leave a colony in a mating swarm – pairing to establish new colonies. After the ‘nuptial flight’, the reproductives lose their wings.



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Queens grow into an egg machine and live for 20 years



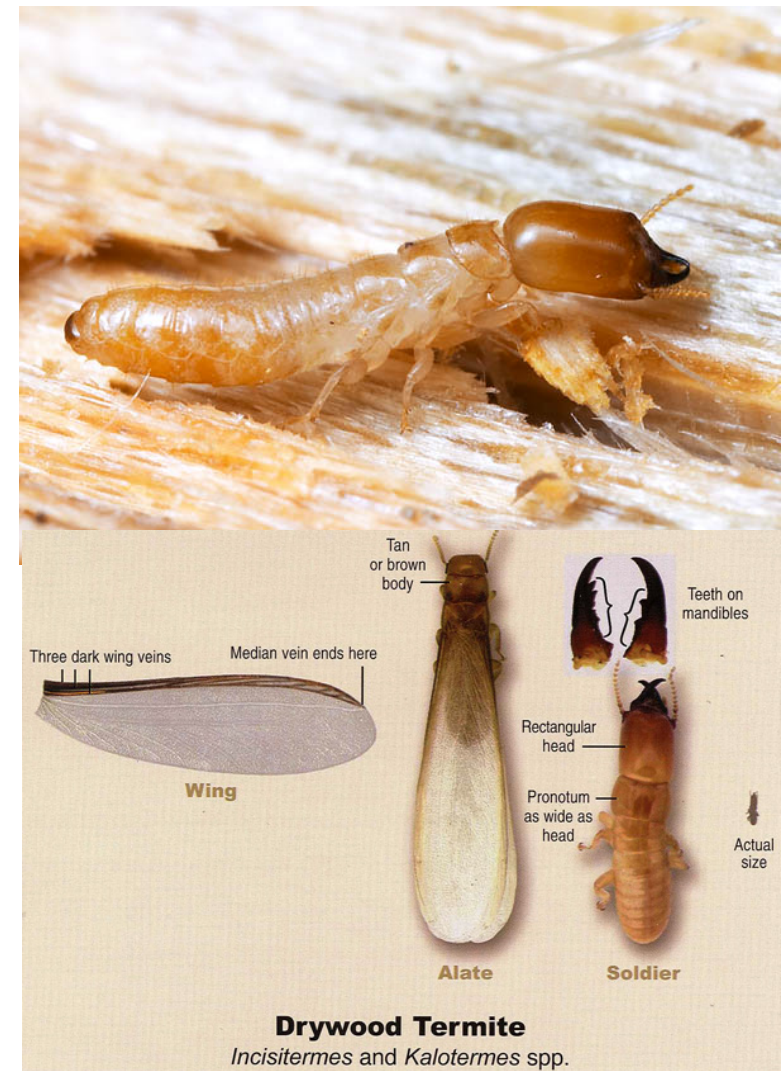
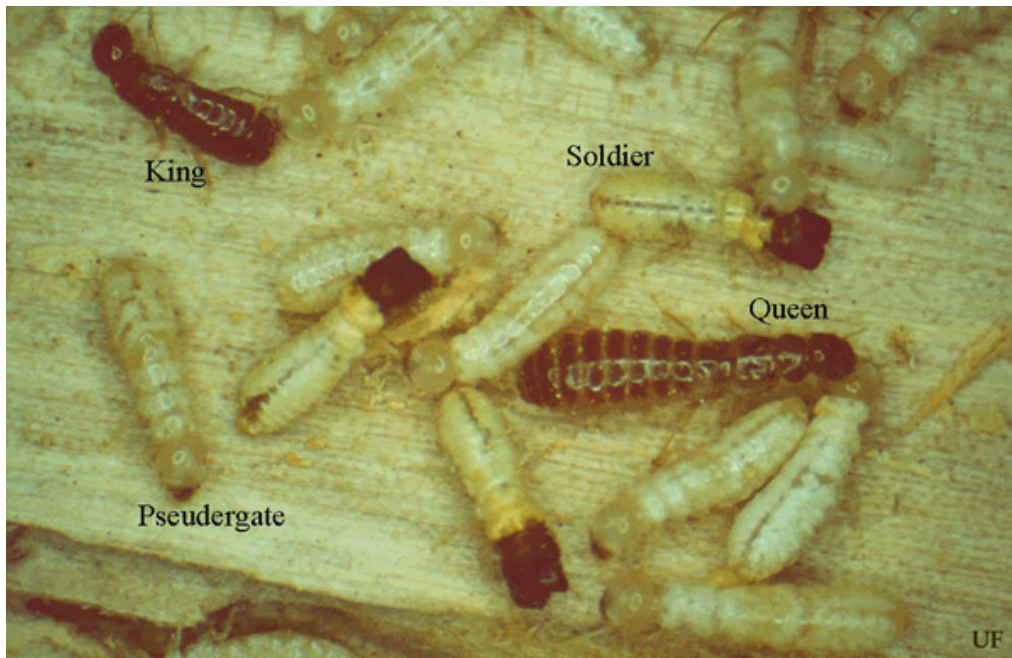
ORDER: Isoptera – Termites

Soldiers and nasutes (in some colonies) product the colony. Soldiers have huge jaws and nasutes have a 'squirt-head'. In *Cryptotermes*, the soldiers have a block-head that blocks the termite burrow.



ORDER: Isoptera – Termites

1. Kalotermitidae - Drywood, Dampwood, and Powderpost termites
 - they do not construct earthen tubes, tending to only create cavities in the wood.
 - Reproductives have ocelli; soldiers have blunt, concave heads



ORDER: Isoptera – Termites

1. Kalotermitidae - Drywood, Dampwood, and Powderpost termites
2. Rhinotermitidae – Subterranean termites
 - build earthen tubes and maintain contact with the ground
 - a fontanelle on the head
 - small



Reticulitermes flavipes – nest in soil, then colonize wood in a home.

