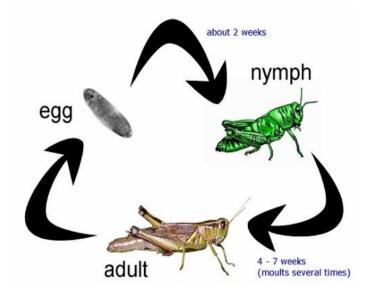


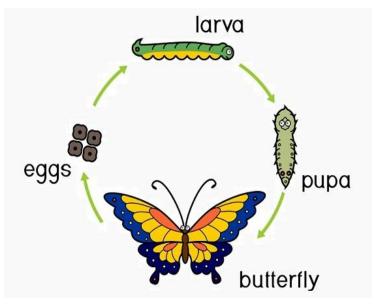
FACULTY OF AGRICULTURAL SCIENCES & ALLIED INDUSTRIES

ENT-121: Fundamentals of Entomology

Lecture 7: Metamorphosis:

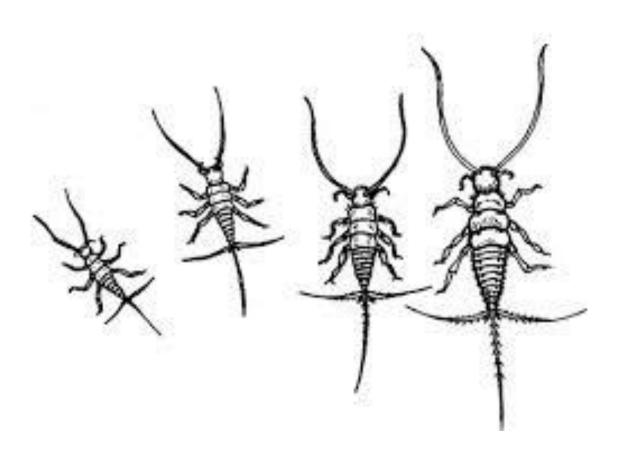
- **1. Ametabola:** (No metamorphosis) e.g. Silver fish.
- **2. Hemimetabola:** (Incomplete metamorphosis) e.g. Dragonfly, damselfly and mayfly. These insects also have three stages in their life namely egg, young one (naid) and adult.
- **3. Paurometabola:** (Gradual metamorphosis) e.g. Cockroach, grasshopper, bugs. The young ones are called nymphs. They are terrestrial and resemble the adults in general body form except the wings and external genitalia.
- **4. Holometabola:** (Complete metamorphosis) e.g. Butterfly, moth, fly and bees. These insects have four life stages namely egg, larva, pupa and adult. Majority of insects undergo complete metamorphosis.





Incomplete (Paurometabola) Metamorphosis (Grasshopper) C (Butterfly)

Complete Metamorphosis



Ametabola Type of Metamorphosis



Hemimetabola in Dragonfly