

Identification part

1. Identify the order
Blattodea



2. Identify the family
Phymatidae



3. Identify the family
Elateridae



4. Identify the family
Cicindelidae



5. Identify the family
Lygaeidae



6. Identify the family
Aphididae



7. Identify the family
Meloidae



8. Identify the family
Formicidae



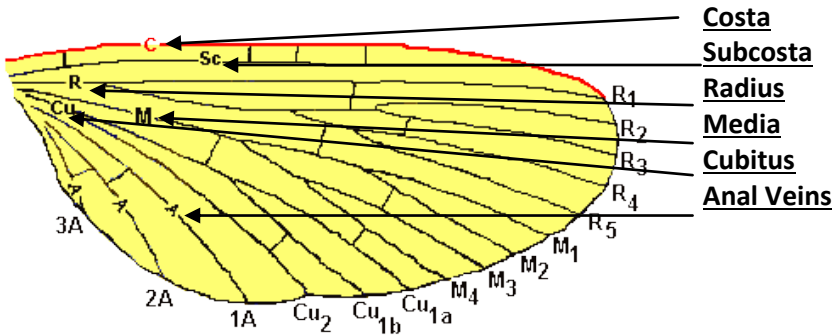
9. Identify the family
Coccinellidae




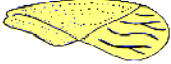

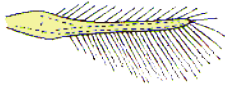
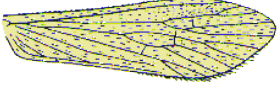

10. Identify the family
Noctuidae






Label the parts of Wing Venation



Wing Types

<i>Name the wing type</i>	<i>Appearance</i>
Elytra -- hard, sclerotized front wings that serve as protective covers for membranous hind wings	
Hemelytra -- front wings that are leathery or parchment-like at the base and membranous near the tip	
Tegmina -- front wings that are completely leathery or parchment-like in texture	
Fringed wings -- slender front and hind wings with long fringes of hair	
Hairy wings -- front and hind wings clothed with setae	
Scaly wings -- front and hind wings covered with flattened setae (scales)	

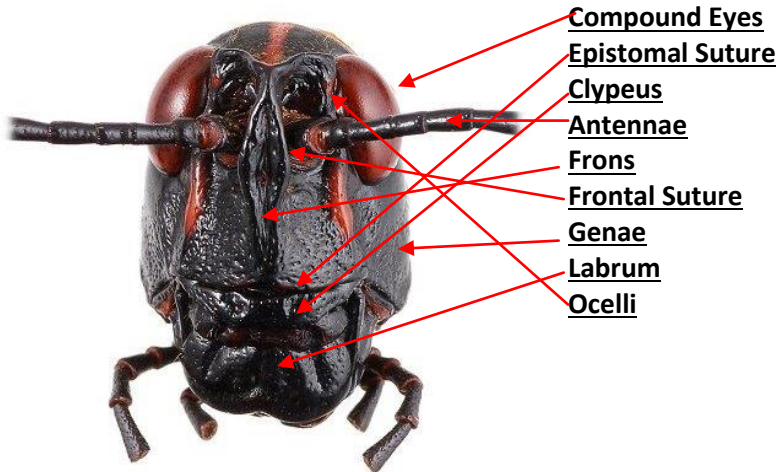
Identify the Pupal Types

<i>Appearance</i>	<i>Pupal Type</i>	<i>Examples</i>
	Obtect	Butterflies and moths
	Exarate	Beetles, Lacewings
	Coarctate	Flies

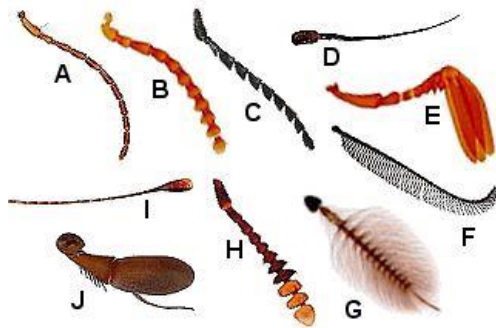
What body parts develop from each Insect germ layers?

Ectoderm:	Epidermis, exocrine glands, brain and nervous system, sense organs, foregut and hindgut, respiratory system, external genitalia.
Mesoderm:	Heart, blood, circulatory system, muscles, endocrine glands, fat body, gonads (ovaries and testes).
Endoderm:	Midgut.

Label the Insect Head parts



Identify the different Antennae Types



- A. Filiform = thread-like
- B. Moniliform = beaded
- C. Serrate = sawtoothed
- D. Setaceous = bristle-like
- E. Lamellate = nested plates
- F. Pectinate = comb-like
- G. Plumose = long hairs
- H. Clavate = gradually clubbed
- I. Capitate = abruptly clubbed
- J. Aristate = pouch-like with one lateral bristle