CLASS INSECTA & GENERAL CHARACTERISTICS

MEDICAL ACADAMEMY NAMED BY S.I.GEORGIEVSKIY 'CRIMEAN FEDERAL UNIVERSITY NAMED BY V.I.VERNADSKIY'

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General characters of class insecta

- These are tracheated arthropods
- It possesses 3 pairs of jointed legs
- Body is segmented
- Insect body is divided into 3 regions
 - Head
 - · Thorax
 - Abdomen
- It possesses a pair of compound eyes & antennae
- Two pair of wings are present in adult stage





CLASSIFICATION

- Kingdom
- Phylum Arthropoda
- Subphylum
- Class

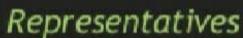
: Animalia

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: Hexapoda

: Insecta





 Fleas, moths, flies, wasps, mosquitoes, grasshopper, beetles, cockroaches, termites, butterflies, ants

 Are mostly solitary, but some insects (bees, ants termites) are social and live in large, well-organized colonies

 Communication occurs in many different ways; males can sense pheromones of female moths over distances of many kilometers (moths), sounds to attract mates (crickets)

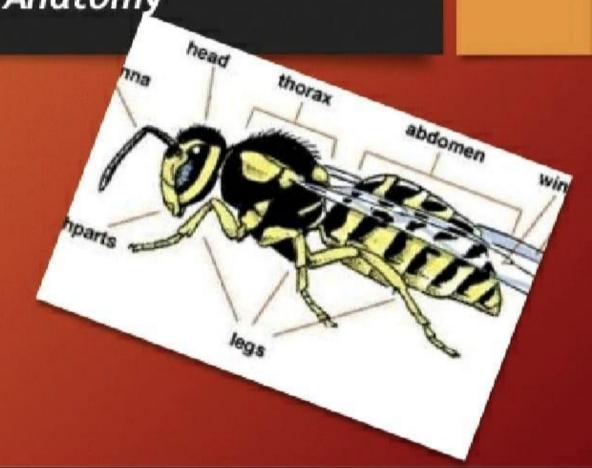






Basic Anatomy

- Chitinous (hard)
 exoskeleton, no bones or a
 skeleton
- Three-part body, head thorax, abdomen
- · Three pair of jointed legs
- Compound eyes which contain several thousand lenses leading to larger field of vision
- Two antenna





Chewing mouthparts of grasshopper under magnification

Basic Anatomy cont:

resistant, no chitin)

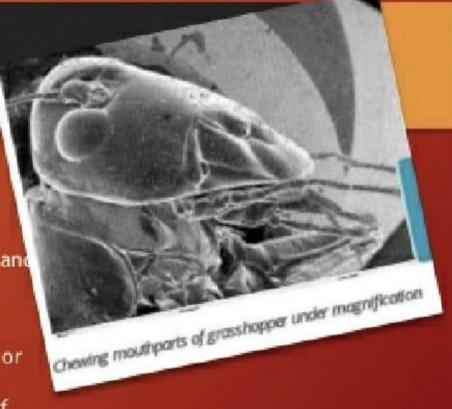
Three body part.

pair of sensory antenna, pair of compound eyes, and if Preset, one to three simple eyes and three sets of modified appendages that form the mouth part

six segmented legs which are used for several things such as running or swimming, and if present, two or four wings

Abdumen 2 consists of eleven segments, contains most of the digestive, respiratory, excretory and reproductive internal structure

 Only invertebrates who can fly, which is very important for their success: muscles are connected to exoskeleton and are able to contract multiple times for each nerve impulse



Identification

- · One pair of antennae
- Usually one pair of compound eyes;
 Simple eyes (ocelli) present in many groups



