Arthropoda Most diverse Phylum

The total _____ of arthropod species exceeds the number of other animal phylum

900,000 have been recorded Probably the same number are not found yet There are more _____ species that there are of all _____.

Arthropods means "______," ______,

Like annelids have a coelom and

Appendages- structures that _____ from the arthropod's body wall

Have joints and bend

for walking

Antennae for sensing _____

Mouthparts

Majority are small Size range from 80 micrometers to 3.6

meters



http://www.afsc.noaa.gov/ra ce/media/photo_gallery/inve rt_files/Red_king_crab.htm



http://biology.arizona.edu/sciconn/le ssons2/Geiger/Picpages/parasitic_mi tes_and_blue_mold.htm

Arthropods are divided into two groups Subphylum Uriramia- with _____

Subphylum Chelicerata or Subphylum Crustacea with ____ and pinchers

Characteristics of Arthropods	
Appendages	
Segmentation	
Distinct, often with compou	and eyes
Exoskeleton	
Tracheae and spiracles	
Open system	
Malpighian tubules	

Segmentation

Sometimes only during the

larval _____

Example caterpillar vs butterfly

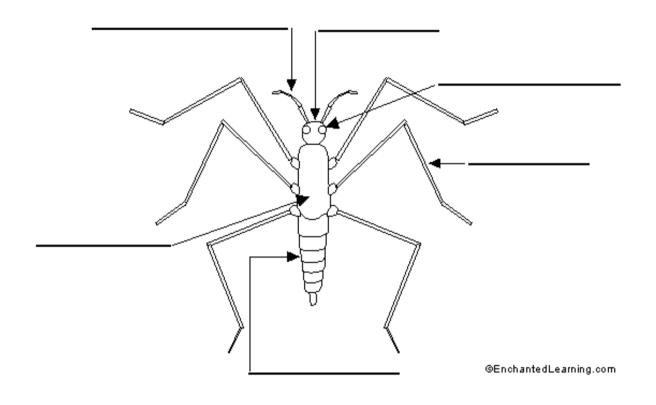




http://www.foagm.org/Album_02-07/caterpillar%20(ID_).jpg

Adults have three distinct regions
Head Thorax Abdomen

Some have a cephalothorax- head and thorax fused



Compound eye- an eye made of thousands of individual visual units each with its own lens and retina.

The brain received images from each and pieces them together

and pieces them together.



Image is fuzzy but motion is seen quicker.
Why is this important?

Some have single eyes, some have compound eyes, and some have both

Exoskeleton	
The shell is	and flexible
where the	are
Exoskeleton from loss	n protects an arthropods and helps prevent

The skeleton can not grow larger so they need to shed and discard their exoskeleton (_____)

Triggered by a release of _____

The new skeleton is beneath and still soft.

The new skeleton then hardens.

Respiration

Tracheae- a network of fine

Air enters through the spiracles and passes into the tracheae delivering to the body

Excretion

Malpighian tubules- slender fingerlike extensions from the arthropod's ____ that are bathed by the ____ that surrounds them