## Animals 4

- send answer to iClicker Question 19A now.
- Moth II
  - new data
- Earthworm
- Starfish I
- iClicker Question 19B

Nothing due in lab **this** week (Lab Practical Exam)

Don't forget to register your iClicker at the Bio 112 website

Don't forget the Phylogenetic Collection Lab

Exam 2: Monday 4/5 (info in Animals 3 handout)

- Last names A G in McCormack Cafe
- Last names H Z here (1 bonus point for going to correct place!) Final Exam Wednesday May 19 11:30 2:30

## Tobacco hornworm moth





caterpillar continued

habitat/food: tobacco plants in temperate climates

life cycle: larva (caterpillar): metamosphosis moth

caterfillar Segmented

dorsal digestive tract tai

head eye spots - mouth - 2 q pairs of legs Ventral nerve cord Ventrel

structure: light exoskeleton Exerction: see handout

circulation open (not always in a vessel) many hearts

-fluid is pumped out into body cavity : sucked back Into blood vessels

- have blood cells but they don't carry or

respiration: highly - brunched tracheoles bring air "near all cells" pumped in lout through spiracles by motion of animal ( more)

reproduction - adult form (moth) Q , or mating = no asexual at all \* larvae can't reproduce

moth's systems - same as caterpillar except:

eats nector structure i stronger exoskeleton

motion: walk, fly

\* only live long enough to make a lay eggs

nervous system - brain : compound eyes - can form images

outside

made of many ommatidia

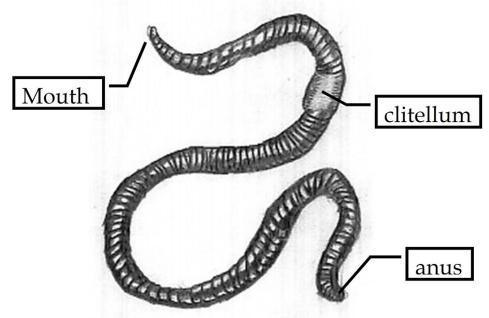
one ommatidium

Plens outside world

single light-sensing cell

## Earthworm





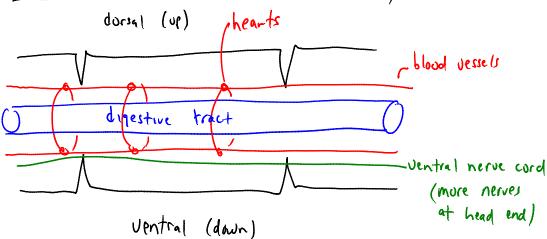
Earthworm Lumbricus terrestri's) phylum : annelida (lopho trocho zoa)

- segmented worm - repeated similar units

Habitat soil <u>eat</u> organic matter (live & dead)

dorsal hea d

Side view of segment - each has excretory unit



respiration - see handout

circulation closed, hearts

motion: expand & contract segments to grab & pull thru soil

