



Klepietkavce

Subphylum Chelicerata

Chelicerata (klepietkavce)



- special mouthparts
called **chelicera**

General characteristics

- includes 2 classes
 - **Xiphosura** (horseshoe crab)
 - **Arachnida** (spiders, ticks, scorpions, & mites)
- have a **cephalothorax** (fused head & thorax) and abdomen
- no antenna
- simple eyes or ocelli
- have 6 pairs of jointed appendages:
 - **chelicerae** - claws or fangs (1 pair)
 - **pedipalps** - used for feeding, walking, sensing, transferring sperm (1 pair)
 - **walking legs** - movement (4 pairs)

Xiphosura

- **marine**
- not true crabs
- fanglike **pincers** or chelicera
- use book **gills** to breathe

horseshoe crab – ostrochvost americký

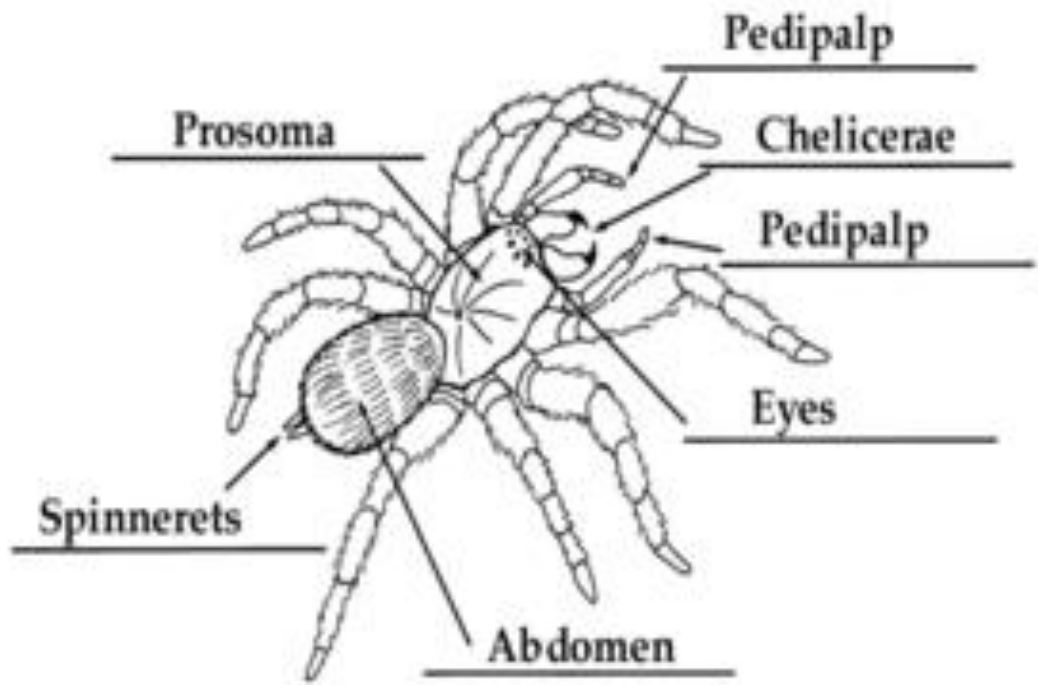


Arachnids

- terrestrial
- **8 legs**
- chelicera or fangs with **venom**
- **ocelli**
- no antenna
- breathe by book **lungs or tracheal tubes**

Spiders

- feeds on insects (**carnivores**)
- have oval shaped, unsegmented abdomen
- **cephalothorax** connected by narrow **waist to abdomen**
- have **8 simple eyes** or ocelli
- **fangs** pierce prey, inject poison & suck out body fluids
- **pedipalps** on head help sense prey & move it to the mouth
- **hemocyanin** is oxygen-carrying pigment in blood
- have **silk glands** to make silk & spinnerets to release silk for webs
- breathe by **book lungs & tracheal tubes**





Mites and ticks

- **parasitic** arachnid
- **fused cephalothorax & abdomen**
- most abundant arachnid
- need **blood meal** to molt
- **mites** can damage fruit & feed on dead skin at base of hair follicle
- **ticks** carry Lyme disease & Rocky Mountain Spotted Fever





Sesame seed



Nymph
deer tick



Wood tick



Adult
deer tick



Scorpions

- have a cephalothorax & **long segmented abdomen curled over body**
- prefer **dry regions**
- **poisonous stinger** on end of abdomen
- breathe through **book lungs**
- pedipalps modified into **claws**
- **nocturnal predators**

