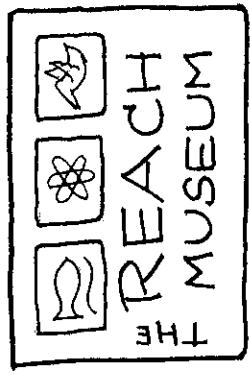
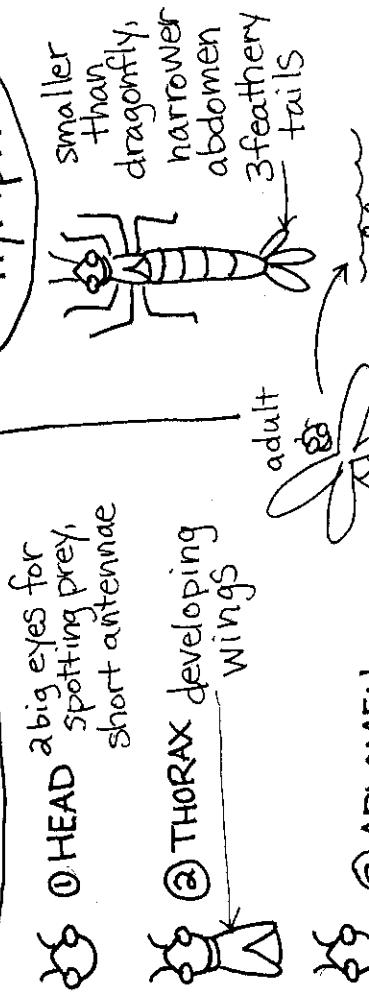


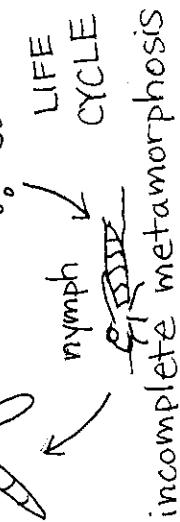
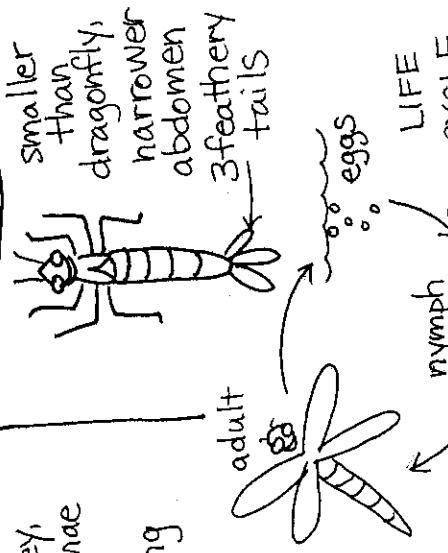
# How to DRAW AQUATIC invertebrates



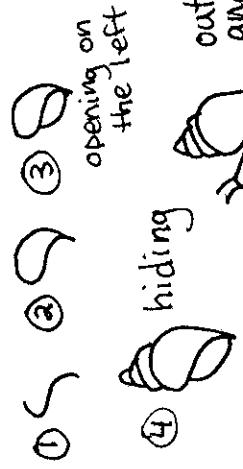
**caddisfly nymph**



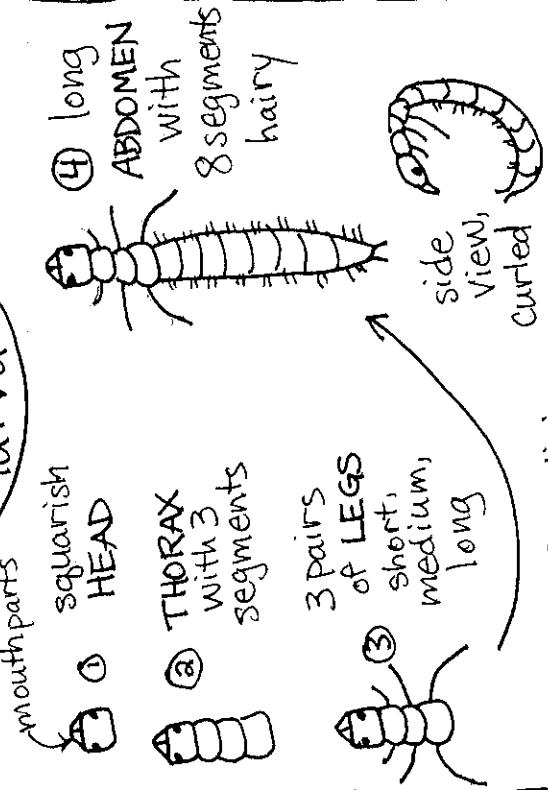
**damselfly nymph**



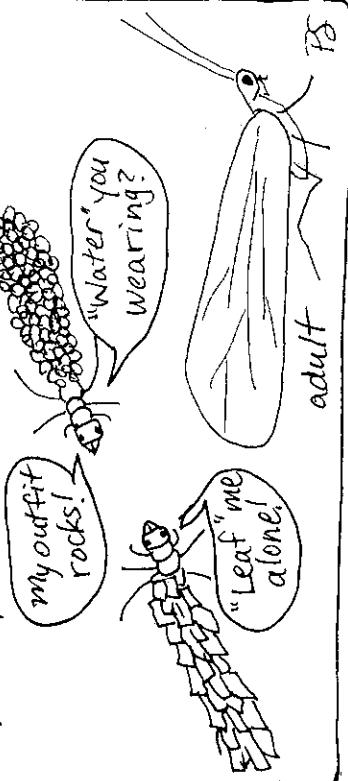
**pouch snail**



**caddisfly larva**

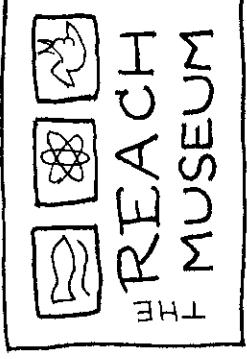
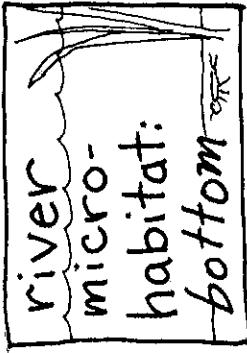


Some are free-living, but many caddisflies make a protective case out of sand, rocks, leaves, or twigs.



PS adult

# HOW to DRAW AQUATIC invertebrates



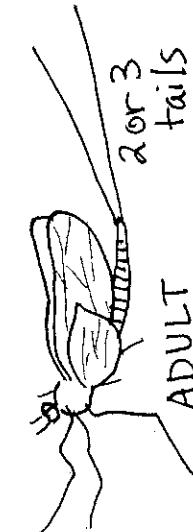
**mayfly larva**

① HEAD antennae

② THORAX developing WINGS

③ ABDOMEN segmented gills  
3 tails

④ 3 pairs of LEGS, attach at THORAX walks or swims with a fish-like wiggle



**stonefly nymph**

a.k.a. salmonfly

① HEAD long antennae  
② THORAX in 3 sections, from round to half-donut-shaped

③ ABDOMEN segmented with 2 tails

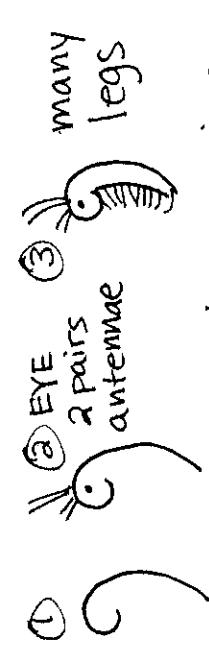
④ 3 pairs of LEGS - attach a pair to each THORAX section



**scud**

a.k.a.  
sideswimmers

Very small!



crawls or swims

**clam**

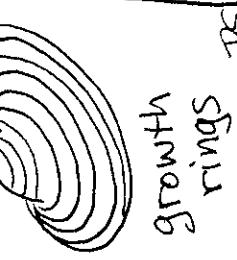
both clam & mussel burrow in mud



small arc  
2 shells enclose body



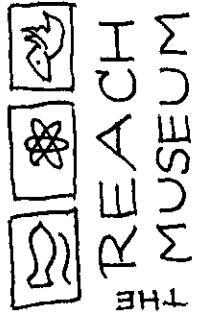
small arc  
growth rings  
side view



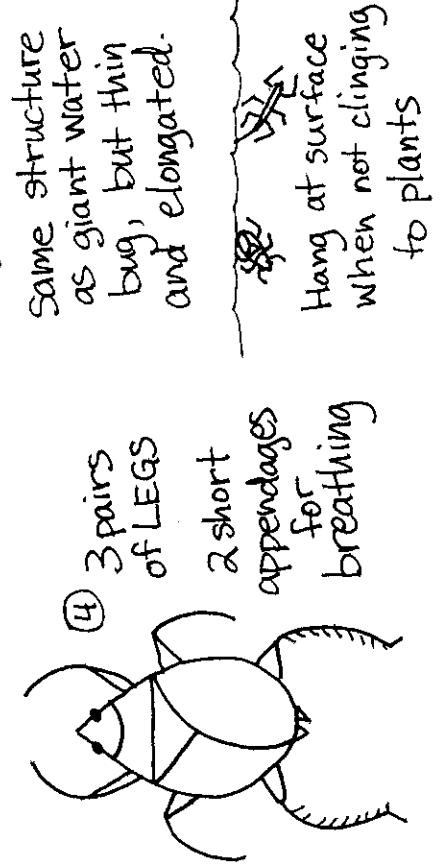
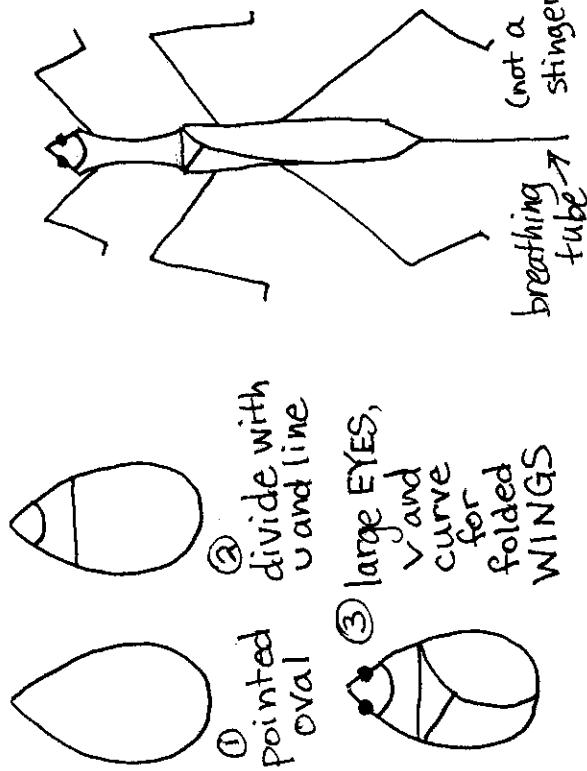
growth rings  
P

# How to DRAW AQUATIC invertebrates

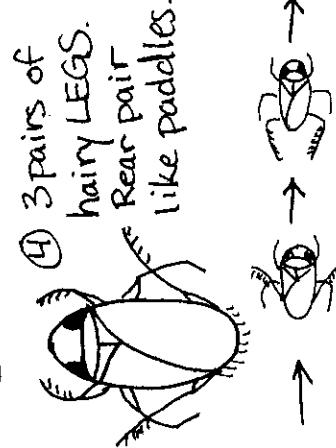
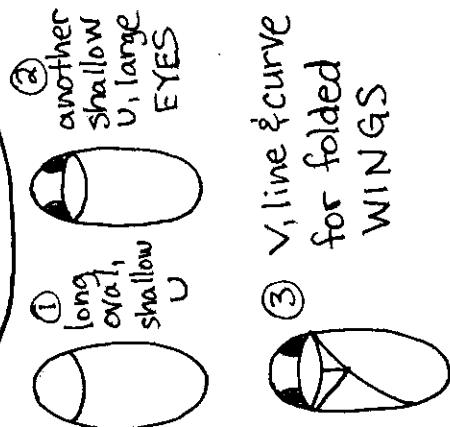
river micro-habitat: surface



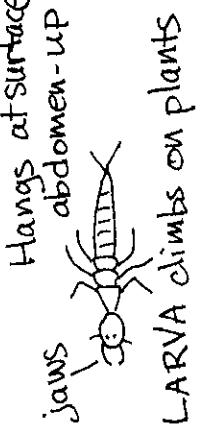
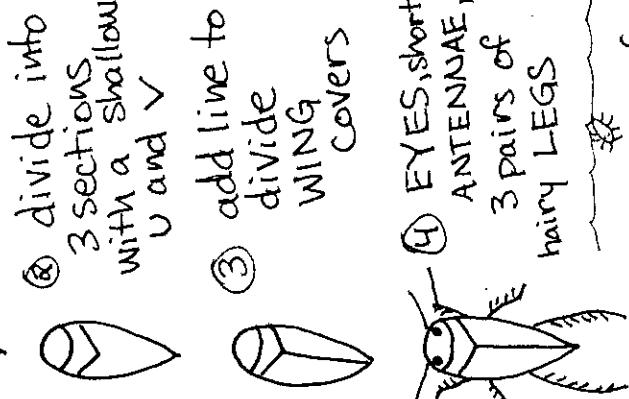
**giant water bug**



**Water boatman**

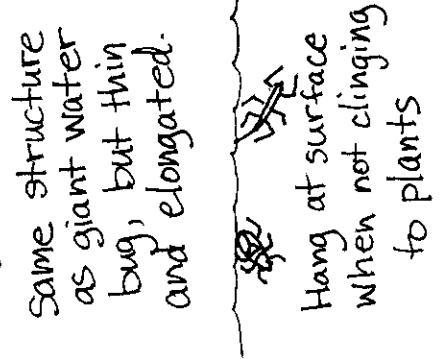
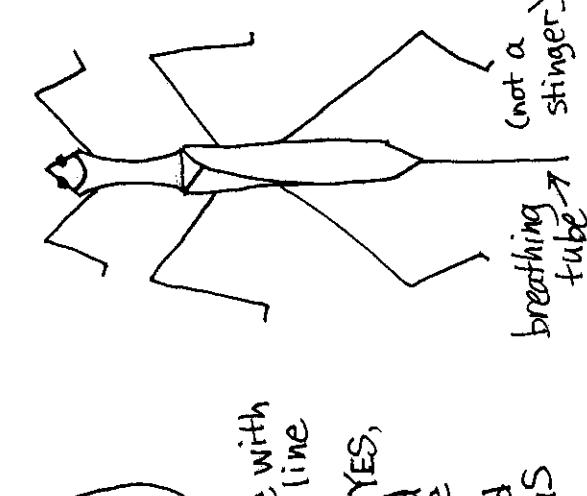


**predaceous diving beetle**



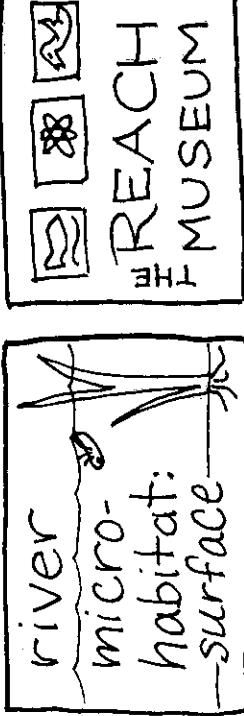
15

**water scorpion**



16

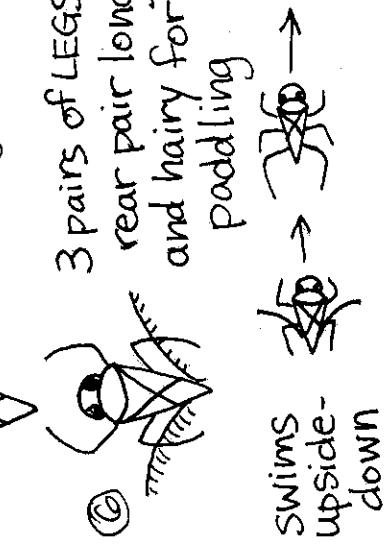
# HOW to DRAW AQUATIC invertebrates



## backswimmer

- ① tall, narrow V
- ② add shallow V
- ③ upside down U on top
- ④ X for folded wings- each line of X goes from upper corner to about 2/3 down.
- ⑤ sideways C for the HEAD, large EYES.

3 pairs of LEGS,  
rear pair long  
and hairy for  
padding



Comes to surface abdomen  
up, unlike water boatman.

## Whirligig beetle

- ① pointed oval
- ② add 2 shallow U's
- ③ vertical line divides WING covers.
- ④ 2 EYES
- ⑤ 2 short ANTENNAE

⑤ Front pair of LEGS  
grab prey.  
Middle and rear  
LEGS paddle.

EYES are part  
above,  
part  
below water

LARVA circles  
underwater

HEAD—THORAX—ABDOMEN with  
10 segments

## Water strider

- ① narrow, pointed oval
- ② divide into 3 parts using V and U
- ③ connect V and U for folded WINGS
- ④ 2 EYES and 2 ANTENNAE
- ⑤ 3 pairs of long LEGS

skates on top  
of Water

## mosquito

ADULT females feed on blood

PUPA uses breathing "horns" at surface, wiggles when disturbed.

