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hind wings equal to or  
larger than front wings  
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hind wings smaller  
than front wings

no long abdominal appendages

abdomen with two or  
three thread-like tails

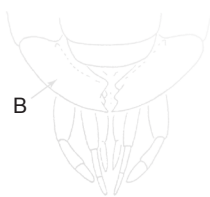
tarsi two or three segmented

tarsi with more than three  
segments (usually five)



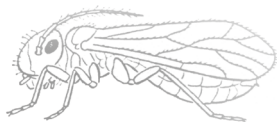
A. piercing-sucking  
mouthparts

B. chewing mouthparts



A

HEMIPTERA  
(cicadas, leafhoppers,  
planthoppers, spittlebugs)



PSOCOPTERA  
(barklice, booklice)

A. antennae shorter than  
body; no noticeable scales



HYMENOPTERA  
(bees, wasps, ichneumons)

B. antennae as long as  
body; wings and body  
often with scales



TRICHOPTERA  
(caddisflies)

EPHEMEROPTERA  
(mayflies)