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Name		
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Macroinvertebrate Identification Sheet Set

1.A. Has a shell	
2.A. Segmented legs	
3 A. Worm-like, small posterior legs, often C-shaped, ½" long → B. Not as above	
4.A. Slender worm-like appearance	
extensions at one end	
5.A. Uses wings to fly	

6.	A. Wings vertical at rest, long tail-like appendages B. Wings horizontal at rest, large eyes	
7.	A. Six true legs	
	A Looks like small lobster, 2 large front claws Looks like small shrimp, swims quickly on its side	
9.	A. Body, oval and flat, head and legs concealed beneath body B. Body longer than it is wide Go to 10	
10.	A. Two or three distinct long "tails" Go to 11 B. Not as above	

11.	A Two "tails," may have hair-like gills under thorax B. More than two "tails"		
12.	A.Up to 2" in length, "tails" (actually gills) more paddle-likeB. Up to 1" in length, long slender tails		
13.	A. Beetle-like body	`	
14.	A. Swims slowly on bottom B. Swims on backside with oar-like strokes		
15.	A. Fat abdomen, large eyes, up to 2" in length → B. Not as above		

16.	A. May be hiding in a case made of sand, gravel, or plant material B. Not as above	>
17.	A. Well defined lateral filaments from multiple abdominal segments	
18.	A. ¼ to 1″ long, distinct head, small legs	
19.	A. Moves quickly along the surface of the water B. Often seen beneath the surface of the water and uses strong pincher-like forelegs for grasping prey	

Post-Lab Questions

- What descriptions in the dichotomous key were most helpful in leading to identification?
 If you were to create your own dichotomous key using the macroinvertebrates in this activity, what additional features or descriptions would you use?
 Why are macroinvertebrates used to determine water quality?
- 4. A specimen sample was taken from a local stream. The sample contained mayflies, stoneflies and waterpenny larvae. What might the presence of these organisms indicate about the water quality of the stream?