

## Microfossils Worksheet

<b>Category of Microfossil</b>				
Sketches				

Compare your specimens and sketches to images shown in Table 1.

Questions (Use a separate sheet of paper to answer the following questions.)

- 1. What key features (size, shape, markings, textures, etc.) of this microfossil provides key evidence as to its identity?
- 2. What structure of the organism formed the microfossil?
- 3. Do you think this organism lived in a group or individually?
- 4. Do you think this was a free-moving organism?
- 5. Do any related marine species still exist today? Which ones?
- 6. What is the likely mineral or chemical composition of this microfossil?

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## **Post-Lab Questions**

t ost Lab Questions	
1. Which categories of microfossils were most commonly found by your group? What about the class?	
2. Give possible reasons why microfossils in some categories may be more abundant than others.	
3. List similarities and differences between the identified microfossil specimens.	
3. List similarities and differences between the identified interolossif specimens.	
Use a local library, textbook or the Internet to answer the following two questions:	
4. Besides the categories of organisms represented in Table 1, what other marine organisms (invertebrate or vertebrate)	ate) were
also abundant during the Devonian Period, as evidenced from fossil specimens collected worldwide?	
5. Find reference information showing continent positions during the Devonian Period (about 400 MYA). Description	ribe the
global location/position of the underwater land mass.	

## Checklist and Photos of Microfossil Categories in Sievings

Typical Image				(manual)			Alla/
Organism & fossilized part	Charophyte algae (spherical oogonia with curved, parallel ridges)	Snail (coiled shell with flattened or elevated spire)	Tentaculite (long, tapered, conical shell with fine concentric ribs)	Polychaete (toothed, ebony-colored jaws, or jaw fragments)	Brachiopod (articulating bivalved shells with radiating ridges)	Crinoid (disk-like, endoskeletal ossicles; cylindrical or pentagonal)  ★	Conodont animal (toothed fragments of jaw apparatus)
ypical Image							
Organism & fossilized part	Foraminifera (small, multi-chambered shell; often flattened)	Sponge (spicules; small with multiple, radial prongs)	Bryozoa (cylindrical fragments of pitted, exoskeletal tubes)	Bryozoa ★ (fenestrate, lattice-like exoskel- etal tubes; pits on one side only)	Ostracod (bean-shaped, bivalved shells = carapace)	★ Misc. spines possibly echinoderm (echinoid),	or other unknown origin

 $[\bigstar-\text{indicates microfossils with relatively high abundance in provided samples}]$