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## Phylum Porifera

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**Purpose:** to compare and contrast sponge structure

**Materials:** Sponge specimens and hand lenses

Microscope and spicule slide

## Method:

- 1. Make a drawing of one of the sponge specimens set up around the room. Label as many structures as you can be sure to label ONLY what you can actually see!
- 2. View the slide of sponge spicules and make a drawing

## **Observations:**

Sponge Specimen

Slide

## **Analysis:**

1. Describe how water moves through a sponge.

2. What important roles does water play in the survival of a sponge?

3. How do sponges reproduce?

4.	What material(s) gives a sponge its support and structure?		
5.	Match the terms on the left with the	he definitions below.	
	osculum	a. water moves into the central cavity through these small openings	
	spicules	b. spike-shaped structures that make up a simple skeleton	
	pores	c. large opening at the top of the sponge where water exits	
	choanocyte (collar cell)	d. specialized cells that move around within the walls of the sponge, making spicules and digesting and transporting food.	
	amoebocyte (archaeocyte)	e. cells that use flagella to move water through the sponge to trap food.	
6.	Describe and draw how a sponge f	eeds.	
7.	7. What triggers a sponge to produce gemmules?		
8.	Draw a sponge and label all the str	uctures.	