

## ***Phylum – Porifera*** ***the Sponges***

### **Taxonomy**

- Kingdom – \_\_\_\_\_
  - Phylum – \_\_\_\_\_ (pore-bearer)

### **Characteristics**

- Simplest of all animals
- Contain \_\_\_\_\_ but no other \_\_\_\_\_ level
- Most are \_\_\_\_\_
- \_\_\_\_\_ sponges are \_\_\_\_\_
- \_\_\_\_\_ sponges are \_\_\_\_\_ and \_\_\_\_\_
- \_\_\_\_\_ enters through \_\_\_\_\_ bringing in \_\_\_\_\_
- \_\_\_\_\_ on \_\_\_\_\_
- \_\_\_\_\_ – large opening at the \_\_\_\_\_ where \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ as \_\_\_\_\_ (attach to rocks)
- \_\_\_\_\_ larval stage called \_\_\_\_\_
- Also reproduce by \_\_\_\_\_ (pieces \_\_\_\_\_ & form a new \_\_\_\_\_)

### **Sponge Body Structure**

- Inside \_\_\_\_\_ of sponge is \_\_\_\_\_
- Called the \_\_\_\_\_
- Have \_\_\_\_\_ layers:
  - Outer \_\_\_\_\_
  - Inner \_\_\_\_\_
- \_\_\_\_\_ material between \_\_\_\_\_ called \_\_\_\_\_
- Water flow \_\_\_\_\_ the \_\_\_\_\_ is controlled by \_\_\_\_\_ called \_\_\_\_\_

## Specialized Cells

- \_\_\_\_\_ (collar cells) line \_\_\_\_\_ of body cavity (\_\_\_\_\_)
- Have \_\_\_\_\_ that \_\_\_\_\_ to pull in \_\_\_\_\_
- \_\_\_\_\_ traps \_\_\_\_\_ (food) from water

## Other Specialized Cells

- \_\_\_\_\_:
  - Pick up food from \_\_\_\_\_
  - Finish \_\_\_\_\_
  - Move through the \_\_\_\_\_ & take food to other cells

## Skeletal Structure of the Sponge

- \_\_\_\_\_ made of network of \_\_\_\_\_ called \_\_\_\_\_
- \_\_\_\_\_ are hard \_\_\_\_\_ or \_\_\_\_\_ structures
- \_\_\_\_\_ made of \_\_\_\_\_ or \_\_\_\_\_ (glass)

## Sponge Reproduction

- Sponges can \_\_\_\_\_ (regrow) lost \_\_\_\_\_ through \_\_\_\_\_ cell division (asexual)
- Sponges also reproduce \_\_\_\_\_ by \_\_\_\_\_
- Sponges are \_\_\_\_\_ (produce both \_\_\_\_\_ & \_\_\_\_\_)
- Sponges reproduce \_\_\_\_\_ by releasing \_\_\_\_\_ into the water from the \_\_\_\_\_
- \_\_\_\_\_ each other's \_\_\_\_\_

## Surviving Harsh Conditions

- \_\_\_\_\_ are \_\_\_\_\_ made to survive \_\_\_\_\_ (hot or cold)
- Contain \_\_\_\_\_, \_\_\_\_\_, and a protective covering of \_\_\_\_\_
- Released when a \_\_\_\_\_
- Resist \_\_\_\_\_ (drying out)
- Become \_\_\_\_\_ conditions become \_\_\_\_\_