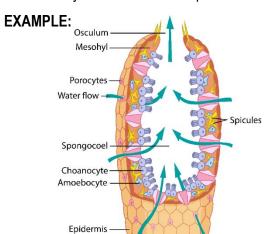
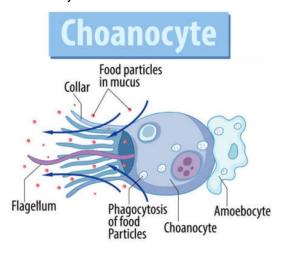
CONCEPT: PORIFERA AND CNIDERIA

- Porifera sponges that are mostly hermaphroditic, and reproduce asexually and sexually
 - □ Filter feeders feed on particles suspended in water by drawing it through their bodies
 - Spongocoel central cavity through which water moves
 - Osculum opening out of which water flows
- Choanocytes flagellated cells that line the spongocoel, feed on suspended food and bacteria via phagocytosis
 - □ Intracellular digestion digestion that takes place in the cytoplasm
- Mesohyl gelatinous matrix that separates the regions of a sponge body
- Amoebocytes cells that transport nutrient and create rigid structural fibers in the mesohyl







- Cnidarians animals like jellyfish, with a radial body plan that is basically a case for the gastrovascular cavity
 - □ *Polyp* cylindrical sedentary organisms, like hydra, that adhere to a surface and catch prey in their tentacles
 - □ **Medusa** free swimming jellyfish with their body opening on their underside surrounded by tentacles
 - □ Cnidocytes specialized "stinging cell"
 - Nematocysts penetrating barbed organelle fired from cnidocytes
 - ☐ Hydrostatic skeleton fluid-filled cavity surrounded by muscle, supports body via fluid pressure
 - ☐ Anthozoa cnidarians like coral and sea anenomes, many of which have a hard CaCO₃ exoskeleton

EXAMPLE:





