

Sec: _____ Name: _____

Experiment: Hydra - An Example of Cnidarians
(B. Science 10-I-12)

Purpose: To observe the structure of a hydra and to learn the behavior of a living hydra.

Materials: living hydra watch glass
prepared specimens (Obelina, Hydra)
(Ico 101, 201 - 204) watch glass

Methods:

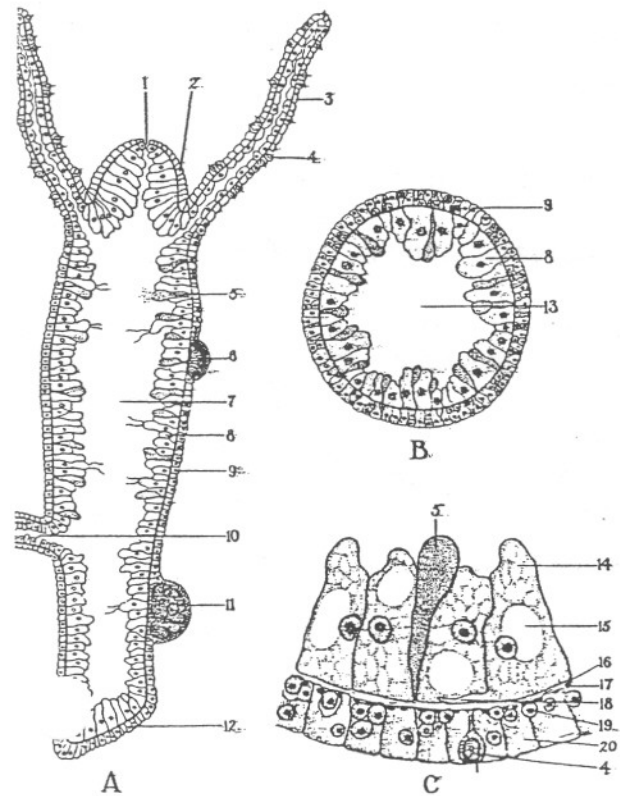
1. Observe the Obelina (Ico 202,203). Draw a sketch of both the polyp and medusa forms of its life cycle, label each.
2. Observe slide Ico 101. Describe the appearance of the coral.
3. Transfer a hydra to a watch glass. Add enough water to cover the animal. Tap the side of the watch glass, record what happens to the animal.
4. Using a probe touch the animal and record the response of the hydra.
5. Did you observe anything to indicate that the touch stimulus spread to areas distant from the contact?
6. How can you explain this (number 4)?
7. Now shine a light on one side of the watch glass, record what hydra does.
8. Observe the prepared specimen of the hydra (longitudinal section) (Ico 204). Label the parts and describe the function of each part indicated.

Results:

1.

2. coral: _____
3. tap: _____
4. touch: _____
5. spread: _____
6. explain: _____
7. light: _____

1. mouth - _____
- 2,20. _____ - support, hold stuff in
3. tentacles - collect food
4. _____
5. interstitial cells
6. _____ - make & store sperm
- 7,13. _____
8. _____ -protect, hold stuff in
9. _____ - protect, support
10. bud - _____



D - cnidoblast

