Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sea Urchin Virtual Lab

|  |
| --- |
| Sea Urchin - Predator or Prey <http://www.stanford.edu/~seastar/VirtualUrchin/PredPrey.swf>  |
| Prey | **Neither** | **Predator** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |
| --- |
| Sea Urchin Anatomy <http://www.stanford.edu/~seastar/VirtualUrchin/urchinanatomy.swf> |
| Anatomy Part | Description |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Fertilization & Development Lab <http://virtualurchin.stanford.edu/fertlab.htm>

Part 1

1. When does reproduction of the Sand Dollar occur?
2. When does reproduction of the banded urchin occur?
3. When does reproduction of the purple urchin occur?
4. Sketch & label the internal structure of an urchin.
5. What is the purpose of injecting KCL into the urchin?
6. How are the eggs collected from an urchin?
7. How is the sperm collected from an urchin?
8. Compare the eggs of a human, urchin, and bird.

Part 2

1. Why dilute sperm in the lab?
2. Sketch what you see under the microscope of the urchin’s egg & sperm.

Part 3

Briefly describe the events in Part 3 of the fertilization & development lab