

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

Dissection 101: Clam

Student Checklist

**Clam Checklist:** Identify the following structures/locations.

* Use lines provided for additional notes
* Outside structures/locations
* Umbo (location): Shell originates from here, oldest section of the shell

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* Orientation
  + Anterior (closer to umbo) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Dorsal (hinge side)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Posterior (greater distance from umbo) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Ventral (foot side - movement)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Hinge: Connection of shells (bivalve) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Label drawing





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* Inside structures/locations

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Dissection 101: Clam

Student Checklist (Continue page 2)

* + Adductor muscles: relaxed – clam opens; contracted – clam closes

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* + Mantle: Produces shell, provides protective and lubricated surface for the body structures \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Pallial line: Location on shell where mantle attaches \_\_\_\_\_\_\_\_\_\_\_

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* + Nacre/Mother of pearl: Iridescent layer of the shell, pearls form here \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Labial palps (4): Two on each side of the mouth, used to sort food and move it toward the mouth for digestion\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Muscular Foot: Used for movement, appears shrunken in preserved clam \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Gills (respiratory): Used to remove oxygen from the water and helps move food toward labial palps \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Visceral mass: Thick area above foot, digestive glands, intestines and gonads located here \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Digestive glands (usually greenish): Produces enzymes to digest food \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Gonads (usually yellowish/white): reproduction \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Intestines (tube-like): Located through the visceral mass, especially noticeable in the gonad region\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + Heart: Pumps blood throughout the clam, open circulatory system (blood pools around heart) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Dissection 101: Clam

Student Checklist (Continue page 3)

* + Draw and label the inside of the clam with the following structures.

Nacre/Mother of pearl Pallial line Adductor muscles Mantle Labial palps Gills Muscular Foot Visceral mass Digestive glands Heart Intestines Gonads



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