

## PHYLUM MOLLUSCA

### 4 MAIN CLASSES:

| <u>Class</u>                       | <u>Gastropoda</u>  | <u>Bivalvia</u>  | <u>Cephalopoda</u>   | <u>Polyplacophora</u>              |
|------------------------------------|--|--|--|------------------------------------|
| Examples                           | Snail, slug<br>(Land & water)  | Clam, Mussel, Oyster   | Squid, Octopus,<br>Cuttlefish  | Chitons                            |
| Feeding                            | Plants & Scavenger   | Filter feeder –<br>phytoplankton   | Catch food with<br>tentacles   | Scrape algae off of<br>rocks       |
| Has a <b>radula</b> ?<br>(yes/ no) | Yes  | No   | Yes  | Yes                                |
| Reproduction                       | Sexual: dioecious<br>or hermaphrodite  | Sexual: dioecious  | Sexual: dioecious  | Sexual: dioecious                  |
| Locomotion                         | Foot   | Foot   | Jet propulsion or<br>tentacles   | Foot                               |
| Circulation<br>(open/closed)       | Open   | Open   | Closed – very active   | Open                               |
| Has a shell?                       | <ul style="list-style-type: none"> <li>• Slug = Absent</li> <li>• Snail = external<br/>&amp; coiled</li> </ul> | External – 2 halves  | <ul style="list-style-type: none"> <li>• Internal – for squid &amp;<br/>cuttlefish</li> <li>• Octopus = none</li> </ul>  | External – 8<br>overlapping shells |
| Other Features                     | Aquatic & land<br>forms  | <b><u>Byssal threads</u></b> =<br>mass of threads used<br>for attachment to a<br>substrate | <ul style="list-style-type: none"> <li>• Ink sac</li> <li>• Suckers on tentacles</li> <li>• Large brain –<br/>especially the<br/>octopus</li> <li>• Can change colour</li> <li>• Able to regenerate<br/>an arm if taken off</li> </ul> |                                    |