**COMPARISON OF MAJOR INVERTEBRATE PHYLA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Porifera** | **Cnidaria** | **Platyhelminthes** | **Nematode** |
| **Examples (at least 2)**  **& Habitat** | sponges  aquatic marine (SESSILE) |  |  |  |
| **Tissue layers & level of organization** | lack tissues and organs (cellular) |  |  |  |
| **Coelom** | n/a |  |  |  |
| **Body Symmetry** | no symmetry |  |  |  |
| **Cephalization** | absent |  |  |  |
| **Digestive** | filter feeding with collar cells |  |  |  |
| **# of digestive openings** | one; gastrovascular cavity |  |  |  |
| **Respiratory** | diffusion |  |  |  |
| **Circulatory**  **(open or closed)**  **(also list structures)** | none; diffusion |  |  |  |
| **Nervous** | none |  |  |  |
| **Excretory** | diffusion by individual cells |  |  |  |
| **Support** | spicules and spongin |  |  |  |
| **Reproduction** | asexual: budding  sexual: release gametes |  |  |  |
|  | **Annelida** | **Mollusca** | **Arthropoda** | **Echinodermata** |
| **Examples (at least 2)**  **& Habitat** |  |  |  |  |
| **Tissue layers & level of organization** |  |  |  |  |
| **Coelom** |  |  |  |  |
| **Body Symmetry** |  |  |  |  |
| **Cephalization** |  |  |  |  |
| **Digestive** |  |  |  |  |
| **# of digestive openings** |  |  |  |  |
| **Respiratory** |  |  |  |  |
| **Circulatory**  **(open or closed)**  **(also list structures)** |  |  |  |  |
| **Nervous** |  |  |  |  |
| **Excretory** |  |  |  |  |
| **Support** |  |  |  |  |
| **Reproduction** |  |  |  |  |