**Invertebrate Presentation Rubric Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ period \_\_\_**

Use Chapter 25 and 26 along online resources to create a PowerPoint presentation in the format below.

Keep the information on each slide easy to read and something you could quickly take notes from. Remember: your classmates will be taking notes on your presentation! Each slide is worth 5 points for a total of **50 points**. Presentations will be graded on clarity and effectiveness of conveying important details for your phylum.

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| Slides | Criteria | Points |
| Slide 1General Description | Provide a general description of your phylum (p.754) | **/5** |
| Slide 2Symmetry | Refer to body symmetry (p.738) and the Body Plan chart (p.741) | **/5** |
| Slide 3Feeding | Explain if your phylum is one or more of the following:* Filter feeder
* Predator that uses Tentacles Cnidocytes Nematocysts
* Carnivore
* Detritovore
* Herbivore
* Parasites
* Omnivore
* Scavenger
 | **/5** |
| Slide 4Circulation | Explain if your phylum is one or more of the following:* Diffusion
* Closed circulatory system (blood vessels & hearts)
* Open circulation
 | **/5** |
| Slide 5Excretion | Explain if your phylum is one or more of the following:* Diffusion
* Use of Flame Cells
* Solid waste through the anus
* Fluid waste removed by nephridia (excretory organs)
* Nephridia
* Malpighian Tubules
 | **/5** |
| Slide 6Response | Explain if your phylum uses one or more of the following:* Ganglia
* Specialized sensory nerve cells
* Nervous system – brain and nerve chords
* Adaptations: sensory tentacles, chemical receptors and statocysts
 | **/5** |
| Slide 7Movement | Explain if your phylum uses one or more of the following:* Sessile
* Cilia & muscle cells
* Muscle cells (length of bodies) contract to move
* Longitudinal Muscles
* Circular Muscles
* Uses a siphon to propel themselves forward
 | **/5** |
| Slide 8Reproduction | Explain if your phylum reproduces asexually or sexually | **/5** |
| Slide 9Respiration | Explain if your phylum uses one or more of the following:* Diffusion
* Gills
* Tracheal tubes
* Spiracles
 | **/5** |
| Slide 10Names of scientific Classes & examples  | Provide the names and pictures of major scientific Classes of your phylum along with interesting examples of each. | **/5** |
|  | **Total Points** | **/50** |

The kingdom Animalia consists of 95-97% invertebrate organisms classified into eight major phyla. From an evolutionary perspective the diversity found throughout the Animal kingdom can be viewed through major changes in body plan, shape, response to environment, and many more key features that arise from the struggle for existence. Some of these important developmental features are listed below.

On a separate sheet of paper define each of the following terms as they relate to their respective phylum.

**PORIFERA:** GANGLIA, SESSILE, SPICULE, FILTER FEEDER, HERMAPHRODITE

**CNIDERIA:**  POLYP, MEDUSA, NEMOTOCYST

**PLATYHELMENTHES:**  PHARYNX, FLAME CELL, PROGLOTTID, SCOLEX

**NEMATODA:** MOUTH AND ANUS

**ANNELIDA:** CLOSED CIRCULATORY SYSTEM

**MOLLUSCA:** MANTLE, GILLS, RADULA, JET PROPULSION

**ARTHROPODA:** JOINTED APPENDAGES, EXOSKELETON, METAMORPHOSIS, MOLT, BOOK LUNGS

**ECHINODERMATA:** WATER VASCULAR SYSTEM, TUBE FEET, NERVE RING