**AP Biology**

**BioBlitz Rubric**

*Note: Any presentations that are less than 50 seconds, more than 60 seconds, or use more than the allowed number of slides, will receive an automatic zero.*

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| ***Section*** | ***0 Points*** | ***5 Points*** | ***10 Points*** | ***20 Points*** |
| **Introduction****(10 Points)** | *Contains no testable question and/or hypothesis* | *Contains testable question and hypothesis (no null required)**Does NOT explain reasoning for hypothesis**OR**Does NOT connect to prior knowledge* | *Contains testable question and hypothesis (no null required)**Explains reasoning for hypothesis**Connects to prior knowledge* |  |
| **Methods/ Procedure** **(5 Points)** | *Does not contain BOTH requirements* | *States the # of samples/trials**Clear and concise* |  |  |
| **Results/ Discussion****(10 Points)** | *Graphs/charts are NOT organized correctly (IV, DV, title, etc.)**OR**Data is inconsistent with what is spoken* | *Graphs/charts are organized correctly (IV, DV, title, etc.)**Data is consistent with what is spoken**Data trends NOT easy to visualize* | *Graphs/charts are organized correctly (IV, DV, title, etc.)**Data is consistent with what is spoken**Data trends easy to visualize* |  |
| **Conclusion****(20 Points)** | *Does not address hypothesis or testable question* | *Rejects or fails to reject hypothesis & answers question**Does NOT explain sources of error AND why they might have occurred* | *Rejects or fails to reject hypothesis & answers question**Explains sources of error and why they might have occurred**Does NOT propose a direction for future experiments* | *Rejects or fails to reject hypothesis & answers question**Explains sources of error and why they might have occurred**Proposes a direction for future experiments* |
| **Clarity****(5 Points)** | *Presentation is missing one or both of the requirements* | *Visually appealing (slide is organized well, text is balanced with graphics, no formatting errors)**Slide is used as a visual aid, NOT as a cue card* |  |  |
| **TOTAL** | **/50** |

**Conclusion Questions for Earthworm Observation:**

1. How does the worm’s body structure make it adapted to live in its environment?
2. How are the worm’s stimulated behaviors adaptive in its environment?
3. How are the behaviors that you saw with your variable adaptive in the worm’s environment?
4. Much of the time, when the worm is unstimulated, it does not move very much. Using cost/benefit analysis, describe why this behavior is adaptive.
5. Give examples of taxis and kinesis from your lab data.