Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_

**Earthworm Inquiry Handout**

Using the tools provided, design and conduct an investigation. Share your findings in Claim, Evidence, Reasoning format.

|  |
| --- |
| **List possible independent variable**  Consider what factors you can change that could impact earthworm biomass. These factors should be related to resources earthworms need in order to survive. List these factors below. |
| **Define a question for investigation**  Select an independent variable you would like to investigate. Record it in the space below.  What is the effect of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_on \_\_\_earthworm biomass\_\_\_\_\_\_?  Independent Variable Dependent Variable |
| **Formulate a hypothesis**  (“If \_\_\_, then \_\_\_ because\_\_\_”). |
| **Describe methods**  Describe how you have set up your investigation. What are the steps you are taking to gather your data? How are your ensuring that you holding factors other than your independent variable constant? |
| **Gather data**  Use this space to organize and gather data. Once you are finished, graph your data as well. Your graph should include the following features: labeled axes, a title, units, and equal intervals between axis values.  Graph  Table  **Interpret and share results**  Using the space below, answer your original question in Claim-Evidence-Reasoning format. Your **CLAIM** is the answer to your initial question. Your **EVIDENCE** is at least three specific pieces of data gathered in your investigation that support your claim. Your **REASONING** is your interpretation of the evidence, describing why it supports your claim. Your reasoning is not a conclusion sentence.  You may write your response as one continuous paragraph OR broken into sections. |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
| **Comments**  For teacher use. |