Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_

**Acid Deposition Activity**

Hypothesis: In the table below, record your prediction(s) for how each solution will affect each item.

Procedure:

1. Label the tops of two petri dishes—one “Acetic Acid” and the other “Water”.
2. Add 1 of each test object (green leaf, chalk, paper clip) to each petri dish.
3. Record the pH of each test solution (acetic acid and water) in the data table.
4. Add the appropriate test solution to each petri dish, using enough to cover the test objects without overflowing the dish.
5. Record your observations (a detailed description of each object) immediately. Repeat this step after 45-60 minutes and again after 3 days.

Data:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Acetic Acid (pH = \_\_\_\_\_\_) | | | | |
| Test Object | Hypothesis | Observations of Objects | | | |
|  |  | Immediate | After 45-60 Minutes | After 3 Days |
| Green Leaf |  |  |  |  |
| Chalk |  |  |  |  |
| Paper Clip |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Water (pH = \_\_\_\_\_\_) | | | |
| Test Object | Hypothesis | Observations of Objects | | |
|  |  | Immediate | After 45-60 Minutes | After 3 Days |
| Green Leaf |  |  |  |  |
| Chalk |  |  |  |  |
| Paper Clip |  |  |  |  |

Analysis/Conclusions:

1. Describe what happened to the organic object in EACH solution.
2. Do you think acid rain (represented by acetic acid) has the same effect on all organic matter? EXPLAIN why or why not.
3. Describe what happened to EACH inorganic object in EACH solution.
4. Do you think acid rain has the same effect on all inorganic matter? Explain why or why not.