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

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Characteristics of Life Lab

**Prelab:**

**What are the essential characteristics required for anything to be alive?**

**Problem:** Scientists use the following characteristics of life to determine if an object is alive. Even if one characteristic is missing, the object cannot be alive. Write a definition for the seven main characteristics of life.

1. Made of Cells:
2. Reproduction:
3. Metabolism:
4. Homeostasis:
5. Heredity:
6. Evolve:
7. Interdependence:

**Experiment:**

1. There are12 items listed in the table.
2. Highlight with color the characteristic of the object that is *currently* missing.
3. You must state the *current* condition of the material (alive, dead, dormant, made from or never alive)
4. Write the evidence that supports your decision. DO NOT WRITE THE OBJECT’S NAME (example: plastic car, leaf).

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Missing  Characteristics | Condition | Evidence Supporting Type of Condition |
| Apple in a box | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Bean Seed | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Wood | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Jelly | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Egg | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| A plucked leaf. | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Paper | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Plastic Car | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| A bouquet of flowers | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Grapes | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Clouds | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |
| Water | 1.Made of Cells  2.Interdependence  3.Reproduction  4.Metabolism  5.Heredity  6.Homeostasis  7.. Evolve |  |  |