Student Sheet **Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period\_\_\_\_\_\_\_**

**Title: Comparing Inheritance**

**Introduction:** Living things inherit their traits from their parents. You may know of traits in your family that have been inherited, sometimes for several generations. Red hair, curly eyelashes, brown eyes or being tall may be easy to see in the parents and children of your family. Scientists define two ways traits are inherited based on the type of reproduction that occurs. In this activity, you will observe the offspring of different organisms and decide what type of inheritance has occurred. Remember than in sexual reproduction, two parents produce offspring with characteristics of both parents. In asexual reproduction, one parent produces an offspring with the same characteristics as the parent.

**Directions:**

1. Look at the pictures and decide which pairs represent sexual or asexual reproduction. Write the type on your data table.

2. Decide which characteristics helped you make your decision and write them also on the data table.

3. Draw or use a computer to create another parent/child pair. Exchange your drawing or pictures with someone else and record which type of inheritance has occurred and why. See as many student pictures as time allows.

**Data:**

|  |  |  |
| --- | --- | --- |
| **Organism** | **Type of Reproduction** | **Evidence for type of reproduction.** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |
| **6** |  |  |
| **7** |  |  |
| **8** |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**My Drawing:**

Analysis:

1. What are characteristics of sexual reproduction?

2. What are characteristics of asexual reproduction?

3. When is asexual reproduction an advantage to a species?