**Genetics Study Guide 5th grade Science Unit Name\_\_\_\_answer key\_\_\_\_\_\_ Teacher Initial & Class #\_\_\_D1\_\_\_\_**

Match the vocabulary words by writing the correct letter for the word on the line.

A. learned trait B. inherited trait C. offspring D. parent E. genes F. organism

G. population H. trait I. dominant trait J. recessive trait K. natural selection L. classify

\_\_**F**\_ any living thing \_\_\_ **D** \_\_ a plant or animal that produces offspring

\_\_ **H** \_\_ a special quality or characteristic that makes you different \_\_\_ **B** \_\_ a characteristic that is passed on to offspring from a

from others parent

\_\_ **A** \_\_\_ a characteristic that is gained by knowledge or experience \_\_\_ **I** \_\_ a trait that always shows over others

\_\_ **G** \_\_\_ a group of one or more species or organisms living in a particular \_\_\_ **E** \_\_ tiny part of DNA that is passed on to offspring from a

area or habitat parent and influences inherited traits

\_\_ **C** \_\_\_ the young of a person, animal or plant \_\_ **J** \_\_\_ a trait that is masked by a dominant trait and is not shown unless an offspring receives only recessive genes

\_\_ **K**\_\_\_a form of evolution that allows animals/plants to adapt to their \_\_ **L** \_\_\_ to put plants and animal into certain groups based on

environment to be able to be more likely to survive their characteristics

**List examples of traits/behviors**

**Learned Traits and Behaviors versus Inherited Traits and Behaviors**

**-learned traits are acquired or gained by -inherited traits are passed on to offspring and they are**

**knowledge or experience things you are born knowing how to do(innate)**

**answers may vary depending on student answers may vary depending on student**

**riding a bike eye color**

**playing the violin natural hair color and straight or curly hair**

**liking a certain color ability to roll your tongue**

**liking or not liking certain foods breathing**

**dyed hair color sleeping**

|  |  |
| --- | --- |
|  | **This cockatoo has white feathers.** This is an example of a(n) \_**inherited**\_\_\_\_\_ trait.  **Joe taught his cockatoo how to speak English.** This is an example of a(n) \_\_\_\_\_\_\_ **learned**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_trait.  **The cockatoos may eat orange bugs and not green ones that blend in with plant leaves.** This is \_\_\_**natural**  **selection**. |

|  |  |
| --- | --- |
|  | **Greg has a beautiful garden. This year he had one orange daisy come up. If he saved the seeds from this daisy and planting**  **them to grow next spring/summer,** what color do you expect the new daisy to be? **orange** |
|  | **Keisha likes to cut her shrubs into shapes. Which of the following is an inherited trait of the shrub?**   1. The shrub is shaped like a cow. B. The shrub is in Kesha’s garden. C. The shrub has green leaves. |

**Natural Selection: Write in either white or black peppered moths**

Which moths survived better on the trees covered with lichens which made them appear white? \_\_ **white peppered**\_\_\_\_\_\_\_\_

Which moths survived better on the trees after they were covered with soot from all of the factories?\_\_\_\_ **black peppered**\_\_\_\_\_\_\_\_\_\_\_

In natural selection, why does one variation of a trait have a better chance of survival over another? **One variation is more hidden by the environment and less likely to be chosen as food and therefore has a higher chance of survival**

**Classifying Plants and Animals:**

**What do scientists use to classify plants and animals? traits and characteristics**

**\_\_\_\_\_ Mammals\_\_ are a group of animals that usually have hair or fur. Examples: \_\_ humans\_\_\_, \_\_\_\_ whales\_\_\_\_\_\_, \_\_ dogs\_\_\_\_**

**\_Insects\_\_\_\_\_ have six legs. Examples: fly, bee, ant, cockroach**

**Arachnids have eight legs like the spider. Examples: brown recluse, black widow, granddaddy longlegs**

**Some animals have a \_\_\_ backbone\_\_\_\_\_\_ or a spine like humans, others like insects have an \_\_\_ exoskeleton\_ or hard**

**outer shell that help them hold their shape and some are soft all over like \_\_\_\_\_ jellyfish\_.**