**Heredity Video**

**Visual Learning Company**

Besides humans, what other species in our world have offspring that look like the parent organism?

**Inherited Traits**

What’s another word for characteristics? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are some traits that you have that are similar to your parents?

What is the difference between traits and heredity?

Traits: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Heredity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inherited vs. Acquired Traits**

**You DECIDE:** Is surfing an acquired or an inherited trait? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name one trait you have acquired: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name one trait an animal acquires:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name one trait that a plant/tree acquires: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The Father of Genetics**

Who is the Father of Genetics? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why did he choose pea plants for his study?

What are the traits Gregor Mendel could observe in a pea plant?

**Genetics**

*Genetics is the study of the process of heredity, or the study of passing traits from a parent organism to an offspring.*

**You Predict:** What type of offspring would be created from a tall pea plant and a short pea plant?

**Dominant vs. Recessive Traits**

**You DECIDE:** What will the offspring of the yellow pea pods and green pea pods look like?

How do we represent the dominant and recessive traits?

**You OBSERVE:** Describe the hairline formation.

**Video ASSESSMENT**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Heredity Video ANSWER KEY**

**Visual Learning Company**

Besides humans, what other species in our world have offspring that look like the parent organism?

**Inherited Traits**

What’s another word for characteristics? \_\_\_\_\_\_**TRAITS**\_\_\_\_\_\_\_\_\_\_\_

What are some traits (or physical appearances) that you have that are similar to your parents?

1. **Answers will vary**

What is the difference between traits and heredity?

Traits: \_\_\_\_\_\_**A living thing is a collection of traits.**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Heredity: \_\_\_\_**Traits that are passed from parent to offspring.**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inherited vs. Acquired Traits**

**You DECIDE:** Is surfing an acquired or an inherited trait? **Acquired**

Name one trait you have acquired: **Answers will vary for example:** **How to drive a car.**

Name one trait an animal acquires: **Dog – how to roll over, play fetch, bark to go outside.**

Name one trait that a plant/tree acquires: **Plant/tree – reaches for the sun and bonsai trees are trained to grow in a certain direction.**

**The Father of Genetics**

Who is the Father of Genetics? **Gregor Mendel**

Why did he choose pea plants for his study?

1. **Pea plants grow quickly.**
2. **Pea plants are easy to grow.**
3. **Pea plants have many different traits that can be studied at the same time.**
4. **Pea plants are easily cross-pollinated.**

What traits could Gregor Mendel observe in pea plants? **Height, seed color and shape, pod color, and flower position**

**Genetics**

*Genetics is the study of the process of heredity, or the study of passing traits from a parent organism to an offspring.*

**You Predict:** What type of offspring would be created from a tall pea plant and a short pea plant?

**Answers will vary.**

**Dominant vs. Recessive Traits**

**You DECIDE:** What will the offspring of the yellow pea pods and green pea pods look like?

**Answers will vary. Answer: 3 of the 4 would be green; 1 out of 4 would be yellos**

How do we represent the dominant and recessive traits?

**Capital and lowercase letters.**

**You OBSERVE:** Describe the hairline formation shown in the video.

**Answers will vary. For example: the hair goes down into a V shape and is bald on both sides.**

**Video ASSESSMENT**

1. **Inherited**
2. **Acquired**
3. **Heredity**
4. **Genetics**
5. **Mendel**
6. **Trait**
7. **Dominant**
8. **Recessive**
9. **Lower**
10. **Genes**