

Name: _____

Date: _____

Herdity Introduction

Khan Academy Video Title: *Heredity*

This sheet will serve as your notes for this section of content. Keep it in your binder so you can use this information as a reference for worksheets and to study from. DO NOT throw it away!

<https://www.khanacademy.org/science/biology/crash-course-bio-ecology/crash-course-biology-science/v/crash-course-biology-109>

1. Heredity is the passing on of genetic traits from **parents** to **offspring**.
2. Aristotle suggested that we were a **mixture** of our parents' traits.
3. This idea meant that our parents' traits were **blended** together in us.
4. The first person to really think about heredity was an Austrian **monk** named Gregor **Mendel**.
5. Humans have **23** pairs of chromosomes.
6. Any cell not an **egg** or sperm is called a **somatic** cell and is diploid (has **2** sets of chromosomes).
7. You get 1 earwax allele from **mom** and 1 from **dad**.
8. Gametes are **haploid**, meaning they contain 1 set of chromosomes.
9. The **dominant** allele will mask the expression of another allele.
10. The allele for wet earwax in this example is **dominant**.
11. The allele for dry earwax in this example is **recessive**.
12. Genotype is the **genetic** makeup.
13. Hank and John's mother had a genotype of **Ww**; while their father had a genotype of **ww**.
14. Set up & complete the Punnett Square below like the one in the video:

15. What percentage of offspring would have wet earwax? 50% Dry? 50%
16. The 23rd pair of human chromosomes are the **sex**-chromosomes.
17. Females will have XX
18. Males will have XY