**Genetics WebQuest**

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Define the Following terms:

**Video 1: What is Heredity?**

What does Heredity mean?

What is a Zygote?

What determines the traits that we receive from our parents? (Why did we get the traits that we got?)

Why aren’t we exact copies of our brothers and sisters?

**Video 2: What is a Trait?**

What types of traits exist and what are they?

1.

2.

3.

What are some other factors that can change a trait?

What is an **allele**? What is the difference between the Big H and the little h?

What does it mean for a trait to be **homozygous?**

What does it mean for a trait to be **heterozygous?**

What does it mean for a trait to be **dominant? Recessive?**

Draw all the possibilities for hitchhiker’s thumb alleles combinations:

What happens when alleles have **incomplete dominance?**

Is each trait always determined by one genes?

How similar are the genes of all humans?

**Video 4: What is a Gene?**

What is the function of a gene in our body?

Where are genes located?

About how many genes do we contain?

What are some other examples of proteins produced by genes?

**Video 4: What is a Chromosome?**

How does DNA fit our cells?

How many Chromosomes do we have in our bodies?