**Amoeba Sisters Video Guide**

**Incomplete Dominance, Codominance, Polygenic Traits, and Epistasis**

**Incomplete & Codominance**

* **What are three Examples of Non-mendelian genetic trats**

1. **\_\_\_\_\_\_\_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_\_\_\_\_**

* **Snap dragons can have 3 genotypes. What are they?**
  1. **\_\_\_\_\_\_\_\_\_\_\_\_**
  2. **\_\_\_\_\_\_\_\_\_\_\_\_**
  3. **\_\_\_\_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ is when the dominant allele isn’t completely expressed when combined with another allele that is different.**
* **In non-mendelian genetics, if you cross a Red Snapdragon flower with a White Snapdragon flower, they will all look \_\_\_\_\_\_\_\_.**

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* **If you cross two pink flowers, you can get red, white or \_\_\_\_\_\_\_.**

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* **In \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ both alleles work together.**
  + **Co= \_\_\_\_\_\_\_\_\_**
* **If you cross a Black chicken with a white chicken. All the chickens will have the genotype \_\_\_\_\_\_\_\_\_\_ and will all look \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Both traits will “show up”**

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***Key take away***

* + **\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_: One allele is not completely dominance over the other. You see this “in between” phenotypes**
  + **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Both Alleles are expressed**

**Polygenic Traits and Epistasis**

* **Height and skin color are both examples of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ traits.** 
  + **Poly = \_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_ traits have many genes coding for one trait.**
  + **\_\_\_\_\_\_\_\_\_\_ factors an affect skin and height**
* **\_\_\_\_\_\_\_\_\_\_\_: one gene depends on another gene to be expressed.**
  + **BB or Bb = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ llama**
  + **Bb = \_\_\_\_\_\_\_\_\_\_\_\_\_ llama**
* **If the llama also inherits (circle one) CC or Cc or cc, the llama will have no color to its fur and be \_\_\_\_\_\_\_\_\_\_\_\_.**