

## Bio 15.2

### Goals

- \* Describe reasons for dominance and recessive
- \* Use the role of a gene to assess and predict dominance or recessiveness of alleles based on allele function

### Plan

- Basic Punnett Square Review (10 min)
- Video: Heredity: Crash Course Biology #9 (10 min)
- Punnett Square practice (10 min)
- Video: What is a gene? (5 min)
- Why are traits Mendelian? Why are they dominant or recessive? (10 min)
- Video: Why Are Alleles Dominant and Recessive? (5 min)
- Practice questions (20 min)
- What is required for Mendelian traits (10 min)
- Review questions (Remainder)

## 15.3

Goals: Describe non-mendelian traits and scenarios

Bellwork: Before you gave blood to someone else, what would be some tests you should run before putting it in another person's body?

### Plan:

- Discuss blood types, why any blood might not work for your body
- Recall three letters involved in blood typing
- Discuss why Mendelian simple dominant and recessive would not work for this type of problem
- Co-Dominance and examples (worksheet)
- Predict what other traits might display co-dominance in animals
- Discussion: sex linked traits
- Reading: Calico cats: Why are they always female
- How you could get a male calico?

HW: punnett squares practice