

- I. Grade Level -7th grade
- II. Unit Title- **Heredity and Genetics**
- III. Unit Length~ 24 days, based on 60 minute class periods
- IV. Major Goals and Learning Outcomes
 - How are genes and alleles related to genotype and phenotype?
 - What is the relationship between traits and heredity?
 - How do genes pass information?
 - How can there be a variation in genotype and phenotype among offspring from the same parents?
 - What does probability have to do with genetics?
 - What are dominant and recessive traits?
 - How is a Punnett square used to determine the probability of possible offspring?
 - How can environmental factors and lifestyles choices affect human characteristics?
 - What is a sex-linked disorder?
 - What is a pedigree chart and how do you interpret it?
 - How can some medical conditions be genetic?
 - What happens when there is codominance or incomplete dominance?
- V. Objectives Included

Objective	Goals	RBT tag
1.01	Identify and create questions and hypotheses that can be answered through scientific investigations.	A3
1.02	Develop appropriate experimental procedures for student and teacher generated questions.	A3
1.04	Analyze variables in scientific investigations: <ul style="list-style-type: none"> • Identify dependent and independent. • Use of control • Manipulate • Describe relationships between • Define operationally 	A3, A4
1.05	Analyze evidence to: <ul style="list-style-type: none"> • Explain observations • Make inferences and predictions • Develop the relationship between evidence and explanation 	A3, A4