Biology I



Heredity & Genetics

Biology Curriculum

Power Objectives	P.O. #1: Analyze and explain how genes are responsible for the inheritance of traits. (P.O. #1 Proficiency Rubric) P.O. #5: Design and conduct investigations. (P.O. #5/6 Proficiency Rubric) P.O. #6: Appraise scientific issues in biology. (P.O. #5/6 Proficiency Rubric)		
Academic Vocabulary	□ DNA□ nucleotides□ punnett square□ allele□ gene	□ chromosome □ heterozygous □ recessive □ dominant □ codominance	□ sex chromosomes □ incomplete dominance □ gametes □ independent assortment
Enduring Understandings Students understand that	 DNA is the molecule that determines an organism's traits. Variation is DNA result in different phenotypes that can be predicted with simple probability problems 		
Essential Ouestions	 Why is the study of heredity important for understanding human health? How can probability be used to predict genetic traits? 		