Priority Standard:	**MS-LS3-2 Heredity: Inheritance and Variation of Traits** Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.
Overarching Skills:	identify models describe what model shows use a model to describe relationships use a model to describe connections use a model to describe changes make predictions based on models develop a model to identify genetic information develop a model to describe genetic variation
WALT:	We are learning to use a variety of models (3D and 2D) to show how genetic information is passed on
Success Criteria:	I can explain why baby Reebops look similar but not necessarily identical to the parent Reebops I can show in pictures how genetic information is passed from parent to offspring I can solve problems about inheritance using Punnett squares
WALT:	We are learning to use models to predict the probability of the variations of traits
Success Criteria:	I can use a Punnett square to predict trait variation percentages (probability) I can decipher what is a dominant variation and recessive variation (AA, Aa, aa)
WALT:	We are learning to develop models to describe genetic variation
Success Criteria:	I can determine the probability that single-gene disorders are passed onto offspring using Punnett squares I can explain why all humans do not look alike by using Punnett squares or other models
WALT:	We are learning to demonstrate how mutations cause genetic variation
Success Criteria:	I can define mutation I can model what a mutation looks like I can show using a model how a mutation causes a new variation to occur within a species/family