

Science DesCartes: General Science – Life and Environmental Sciences

Skills: Heredity

Students:	DesCartes Skills: (Highlight the skills related to your chosen standard/concept)
	<p>RIT 231-240:</p> <ul style="list-style-type: none"> • Gives examples of environmental conditions that may influence the characteristics of an organism • Evaluates the importance of mutation in producing genetic variation • Predicts probabilities of inheritance for simple dominant-recessive alleles in monohybrid crosses (Mendelian inheritance) • Describes incomplete dominance • Classifies given characteristics as examples of phenotype
	<p>RIT 221-230:</p> <ul style="list-style-type: none"> • Recognizes that replication is the cellular process in which DNA is copied • Classifies examples of mutations as inversions, deletions, substitutions and point mutations • Describes patterns of inheritance seen for single gene traits • Determines the parents involved in a monohybrid cross, given the outcome of that cross and the genotype and/or phenotype of the other parent • Predicts patterns of inheritance for simple-dominant recessive alleles in dihybrid crosses (Mendelian inheritance) • Predicts probabilities of inheritance for sex-linked alleles
	<p>RIT 211-220:</p> <ul style="list-style-type: none"> • Identifies examples of inherited traits • Defines mutation • Predicts patterns of inheritance for simple-dominant recessive alleles in dihybrid crosses (Mendelian inheritance) • Explains that sex chromosomes determine the gender of a human (two copies of the X chromosome produce a female, one copy of X plus one copy of Y produce a male) • Explains that the sex of a child is determined by the presence or absence of a Y chromosome in the sperm • Defines fertilization
	<p>RIT 201-210:</p> <ul style="list-style-type: none"> • Recognizes that egg and sperm unite to produce a new individual

Lesson Title:

Standard/Concept for All:

Introduction: (Get Attention; Connect to Prior Knowledge)

For Students Ready for a Challenge:

Lesson/Activity:

Resources:

Means of Assessment:

For Most Students:

Lesson/Activity:

Resources:

Means of Assessment:

For Students Needing Extra Support:

Lesson/Activity:

Resources:

Means of Assessment:

Closure/Summary for All: