Explain how mitosis maintains genetic consistency

CONTINUITY & CHANGE

Explain how meiosis creates variation

CONTINUITY & CHANGE

List the commonalities & differences of mitosis & meiosis

CONTINUITY & CHANGE

List & describe post-reproductive barriers that lead to speciation

CONTINUITY & CHANGE

Explain how meiosis makes sexual reproduction possible

CONTINUITY & CHANGE

Describe the three functions mitosis serves in multicellular organisms

CONTINUITY & CHANGE

List & describe pre-reproductive barriers that lead to speciation

CONTINUITY & CHANGE

Explain how geographic (allopatric) isolation leads to speciation

Explain how reproductive (sympatric) isolation leads to speciation

CONTINUITY & CHANGE

Explain the five principles of natural selection

CONTINUITY & CHANGE

Describe the five agents of evolutionary change acting on a population

CONTINUITY & CHANGE

Explain how meiosis accounts for both Mendel's laws of heredity

CONTINUITY & CHANGE

Describe the function that mitosis serves in unicellular organisms

CONTINUITY & CHANGE

Give an example & explain a simple dominance & recessive inheritance pattern

CONTINUITY & CHANGE

Give an example & explain a co-dominance inheritance pattern

CONTINUITY & CHANGE

Give an example & explain an incomplete dominance inheritance pattern

Give an example and explain an epistatic inheritance pattern

CONTINUITY & CHANGE

Give an example and explain a polygenic inheritance pattern

CONTINUITY & CHANGE

Give an example and explain a pleiotropic inheritance pattern

CONTINUITY & CHANGE

Give an example and explain a sex-linked inheritance pattern

CONTINUITY & CHANGE

Describe Mendel's first law of heredity

CONTINUITY & CHANGE

Describe Mendel's second law of heredity

CONTINUITY & CHANGE

Describe the process of DNA replication

CONTINUITY & CHANGE

Explain what a silent mutation is & describe its potential effects

Explain what a missense mutation is, describe its potential effects, & give an example

CONTINUITY & CHANGE

Explain what a frameshift mutation is & describe the potential effects

CONTINUITY & CHANGE

Explain what a addition mutation is & describe its potential effects

CONTINUITY & CHANGE

Explain what a gene duplication mutation is & describe its potential effects

CONTINUITY & CHANGE

Explain what a nonsense mutation is & describe its potential effects

CONTINUITY & CHANGE

Explain what a deletion mutation is, describe its potential effects, & give an example

CONTINUITY & CHANGE

Explain what a gene inversion mutation is & describe its potential effects

CONTINUITY & CHANGE

Explain what a gene translocation mutation is & describe its potential effects

Describe the four sex chromosome abnormalities & their effects

CONTINUITY & CHANGE

Describe a human autosomal chromosome abnormality

CONTINUITY & CHANGE

Explain nondisjunction & how it leads to chromosomal abnormalities

CONTINUITY & CHANGE

Describe & diagram the process of meiosis & cytokinesis

CONTINUITY & CHANGE

Describe the process of crossing over

CONTINUITY & CHANGE

Describe & diagram the process of mitosis & cytokinesis

CONTINUITY & CHANGE

Explain the action of cdks & cyclins in the regulation of the cell cycle

CONTINUITY & CHANGE

Explain the consequences of a loss of regulation of mitosis

CONTINUITY & CHANGE	CONTINUITY & CHANGE
Describe the three checkpoints of the cell cycle	Explain the effects of proto-oncogenes & tumor suppressor genes
CONTINUITY & CHANGE	CONTINUITY & CHANGE
CONTINUITY & CHANGE	CONTINUITY & CHANGE
CONTINUITY & CHANGE	CONTINUITY & CHANGE