

## **CONTINUITY & CHANGE**

**Explain how mitosis maintains genetic consistency**

## **CONTINUITY & CHANGE**

**Explain how meiosis makes sexual reproduction possible**

## **CONTINUITY & CHANGE**

**Explain how meiosis creates variation**

## **CONTINUITY & CHANGE**

**Describe the three functions mitosis serves in multicellular organisms**

## **CONTINUITY & CHANGE**

**List the commonalities & differences of mitosis & meiosis**

## **CONTINUITY & CHANGE**

**List & describe pre-reproductive barriers that lead to speciation**

## **CONTINUITY & CHANGE**

**List & describe post-reproductive barriers that lead to speciation**

## **CONTINUITY & CHANGE**

**Explain how geographic (allopatric) isolation leads to speciation**

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**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**

**CONTINUITY & CHANGE**

**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**

## **CONTINUITY & CHANGE**

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

## **CONTINUITY & CHANGE**

**Explain what a nonsense mutation is & describe its potential effects**

## **CONTINUITY & CHANGE**

**Explain what a frameshift mutation is & describe the potential effects**

## **CONTINUITY & CHANGE**

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

## **CONTINUITY & CHANGE**

**Explain what an addition mutation is & describe its potential effects**

## **CONTINUITY & CHANGE**

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

## **CONTINUITY & CHANGE**

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

## **CONTINUITY & CHANGE**

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

## **CONTINUITY & CHANGE**

**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**

**Describe the three checkpoints of the cell cycle**

**CONTINUITY & CHANGE**

**Explain the effects of proto-oncogenes & tumor suppressor genes**

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