## CONTINUITY \& CHANGE

Explain how mitosis maintains genetic consistency

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

CONTINUITY \& CHANGE
Explain how reproductive (sympatric)
isolation leads to speciation

CONTINUITY \& CHANGE
Describe the five agents of evolutionary change acting on a population
CONTINUITY \& CHANGE
Describe the function that mitosis serves in unicellular organisms

## CONTINUITY \& CHANGE

Give an example \& explain a co-dominance inheritance pattern

CONTINUITY \& CHANGE

## Explain the five principles of

 natural selection
## CONTINUITY \& CHANGE

## Explain how

 meiosis accounts for both Mendel's laws of heredityCONTINUITY \& CHANGE Give an example \& explain a simple dominance \& recessive 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 pleiotropic inheritance pattern

CONTINUITY \& CHANGE

Describe Mendel's first law of heredity

## CONTINUITY \& CHANGE

Give an example and explain a polygenic inheritance pattern

CONTINUITY \& CHANGE
Give an example and explain a sex-linked
inheritance pattern
CONTINUITY \& CHANGE
Describe Mendel's second law of heredity

## 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

frameshift mutation is \& describe the potential effects

## CONTINUITY \& CHANGE

## Explain what a

 addition 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 duplication mutation is \& describe its
potential effects

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

## CONTINUITY \& CHANGE

Describe the four sex chromosome abnormalities \& their effects

CONTINUITY \& CHANGE Explain nondisjunction \& how it leads to chromosomal abnormalities

## CONTINUITY \& CHANGE

> Describe the process of crossing over

## CONTINUITY \& CHANGE

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

CONTINUITY \& CHANGE
Describe a human autosomal chromosome abnormality

CONTINUITY \& CHANGE
Describe \& diagram the process of meiosis \& cytokinesis

## CONTINUITY \& CHANGE

Describe \& diagram the process of mitosis \& cytokinesis

## CONTINUITY \& CHANGE

Explain the consequences of a loss of regulation of mitosis

CONTINUITY \& CHANGE
Describe the three checkpoints of the cell cycle

CONTINUITY \& CHANGE

CONTINUITY \& CHANGE

CONTINUITY \& CHANGE
Explain the effects of proto-oncogenes \& tumor suppressor genes

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