Genetic Entropy and Long lives

Name: _____ Date: _____

Vocabulary Words: Match the definition to each word.

1. Human bodies are composed of microscopic _____ that divide and replicate during growth and repair.
2. Over time, _____ mistakes accumulate in DNA across generations, leading to changes.
3. Each _____ generation inherits previous cellular mistakes while potentially adding new ones.
4. A major environmental _____, such as a global flood, can cause widespread changes.
5. Exposure to _____ can affect biological structures and accelerate the rate of errors.

Word bank: Catastrophe, Cells, Subsequent, Radiation, Genetic

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Multiple Choice: Choose the correct answer from the choices for each question.

1. Why do lifetimes decrease over generations?
   A) Organisms stop dividing their cells.
   B) Genetic mistakes and errors accumulate.
   C) Modern environments contain more oxygen than ancient environments.
   D) Human cells become larger over time.

2. Which describes the rate of change to human lifespans following the global flood event?
   A) A flat, unchanging straight line
   B) A slow upward curve
   C) A sharp drop like a "hockey stick curve"
   D) A bell curve that rises and falls repeatedly

3. What modern factor has helped human lifespans return to around 80–90 years?
   A) Eliminating all atmospheric radiation
   B) Modern medical science
   C) Reverting genetic code to its original state
   D) Restoration of ancient magnetic fields

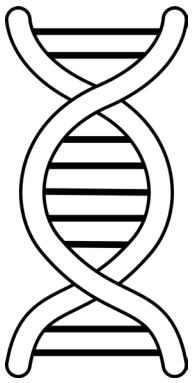
4. What planet-wide factor has accelerated lifespan reduction after the Flood?
   A) Shifts in Earth's magnetic field and increased radiation reaching Earth
   B) A loss of ocean water
   C) A decrease in global plant biodiversity
   D) Changes in the Moon's gravitational pull

Discussion & Reflection: Answer the following questions in complete sentences

1. Explain what would allow early organisms to live significantly longer lives, and describe how cell division changes this over time. _____

2. Describe how environmental changes and physical Earth processes can interact with biological genetics to impact human health and longevity. _____

3. This shows me that God is (Circle the word):

Wise Powerful Caring Creative All of the above

Explain your choice: