**Name** _____

## Mitosis: The Marvelous Mechanism for Growth and Tissue Repair

### Open-Ended Response Questions

1. Discuss the significance of mitosis in the context of growth and development during an organism's lifetime.

2. Imagine a world where mitosis did not exist. How might this impact the ability of multicellular organisms to grow and repair their tissues?

3. Explain how mitosis contributes to the regenerative abilities of certain organisms, like starfish and amphibians.

4. How can a deeper understanding of mitosis benefit medical research and the development of treatments for diseases related to cell growth and repair?

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