

Design Your Own Immortal Creature - Homework Instructions

Objective:

Create a fictional creature that can avoid aging using real biological concepts.

Part 1 - Immortality Toolkit:

Choose two real mechanisms animals use to avoid aging:

- Regeneration
- Life-cycle reversal
- Continuous stem-cell renewal
- Cancer resistance
- DNA repair
- Slow metabolism
- Colony immortality

Part 2 - Creature Design:

Describe your creature's appearance (size, habitat, body structure, special features).

Explain how it avoids aging using the two mechanisms you selected.

Identify at least one weakness (predators, disease, accidents, environmental change, habitat loss).

Describe its role in the ecosystem.

Part 3 - Immortality Pitch:

Prepare a short explanation describing why your creature's immortality is scientifically believable.

Part 4 - Reflection Questions:

1. Which real animal inspired your creature the most, and why?
2. What surprised you about biological immortality?
3. Why doesn't immortality guarantee survival?

Optional (Extra Credit) - Draw Your Creature

Use your creativity to draw the creature that you designed. Include the body structure and features you mentioned in your creature design.