Welcome Back!

I missed ya'll..........kind of..........not really..........but for real.
This Semester!

• Only **30** Academic Days in my classroom.
• Ga Milestone
• We’ll be ready, and we’ll have fun in the process.
• Learn from mistakes from last semester.
  • You cannot do the same things and expect a different result. That is called idiocrasy.
Topics

• Genetics (3 Weeks)
• Evolution (3-4 Weeks)
• Taxonomy (4 Weeks)
Are you back yet!?

- How many legs does this elephant have?
Are these horizontal lines straight or crooked?
•How many months have 28 days?
Genetics Question of the Day?

1. How do cells reproduce?
1. G1 – Growth; Cell matures and spends most of its life.
2. S-Phase – DNA Replication occurs
3. G2 – Cells continue to grow and prepares for division
4. M – Phase – Cell Divides
5. Interphase – G1, S-Phase, and G2. Cells spends most of its life.
Question: How do Cells Reproduce?

• What is the difference between sexual reproduction and asexual reproduction?
  • Sexual- Reproduction requires at least two organisms
  • Asexual- Only one parent required

What does that look like?!
Sexual: Offspring share traits from parents.
Asexual: Identical to parent (clone)
M – Phase (Mitotic Phase)

• Where the cells divides.
• Divided into several sections:
  • Prophase
  • Metaphase
  • Anaphase
  • Telophase
  • Cytokinesis
1. Prophase

1. Chromatin (spaghetti) condense to form sister chromatids (solid).
2. Metaphase

1. Sister chromatids (solid) align in the middle (equator).
2. Spindle fiber attach to sides of each sister chromatid.
3. Anaphase

1. Sister chromatids (solid) are pulled apart by spindle fibers (produced by centrioles).
4. Telophase

1. Cell begins to divide.
2. Cell Membrane begins to reappear.
4. Cytokinesis

1. Cell divides into 2 identical daughter cells.
Concluding Question?! Is Mitosis sexual or asexual reproduction?!
Mitosis

• “Mitosis” = “My Toes is…..ugly”
• My toes are not sexy = asexual
• A- not (Sexual)