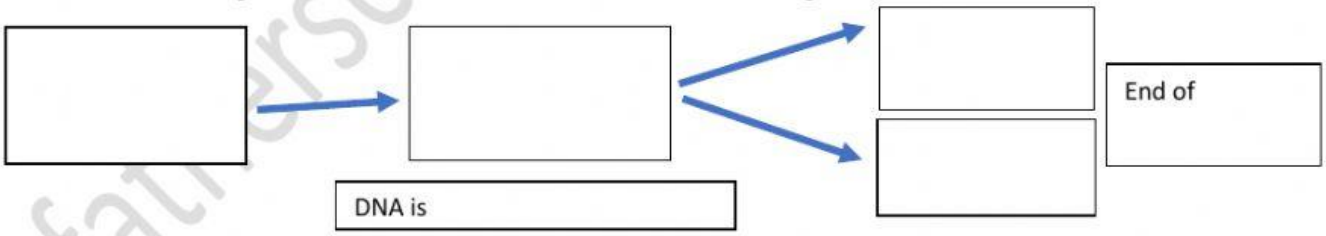
Learning Target: I can describe and explain the process of mitosis and how it leads to genetic Continuity of species.

Mitosis 101 Video Notes

Mitosis is _____ reproduction

- Mitosis is the process in which the _____
  _____
- Mitosis begins after a _____
-
- Mitosis creates genetically identical _____
  _____
- Fill in the diagram that is shown at 2 minutes below in a left to right view:



- The three reasons why Mitosis occurs are _____
- The cell cycle spends most of its time in _____
  What occurs in G1 Phase? _____ S Phase? _____
  G2 Phase? _____
  What occurs in the M phase? _____

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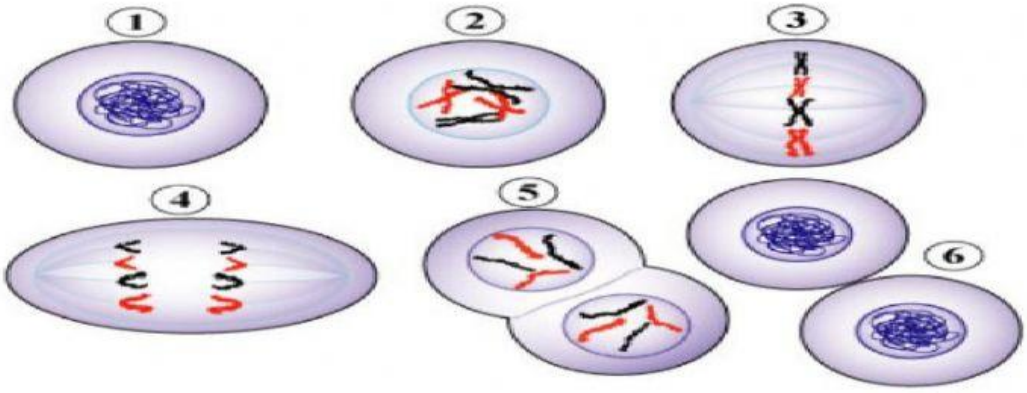
- List the phases of Mitosis in order beside each corresponding diagram below:



- Write a mnemonic that will help you remember the phases of mitosis. _____

_____

Check for Understanding 1 – Put the following phases of mitosis in order

Anaphase, Prophase, Telophase, Metaphase, Cytokinesis, Interphase

1. _____ 2. _____ 3. _____

4. _____ 5. _____ 6. _____

1. **Interphase** = _____
2. **Prophase** = The chromosomes appear _____
_____
3. **Metaphase** = Thick coiled chromosomes are lined up in the _____ of the cell on the _____. _____ fibers are _____ to the _____ _____.
4. **Anaphase** = The _____ have _____ and are moving toward the ___ _____.
5. **Telophase** = The chromosomes are at the _____ and are becoming more diffuse. The __ _____ envelope is reforming. The _____ may be _____
6. **Cytokinesis** = Cell _____ and two new cells are formed.

Animal Mitosis – Label each phase of mitosis for the pictures on the video:

1. _____ 2. _____ 3. _____

4. _____ 5. _____ 6. _____

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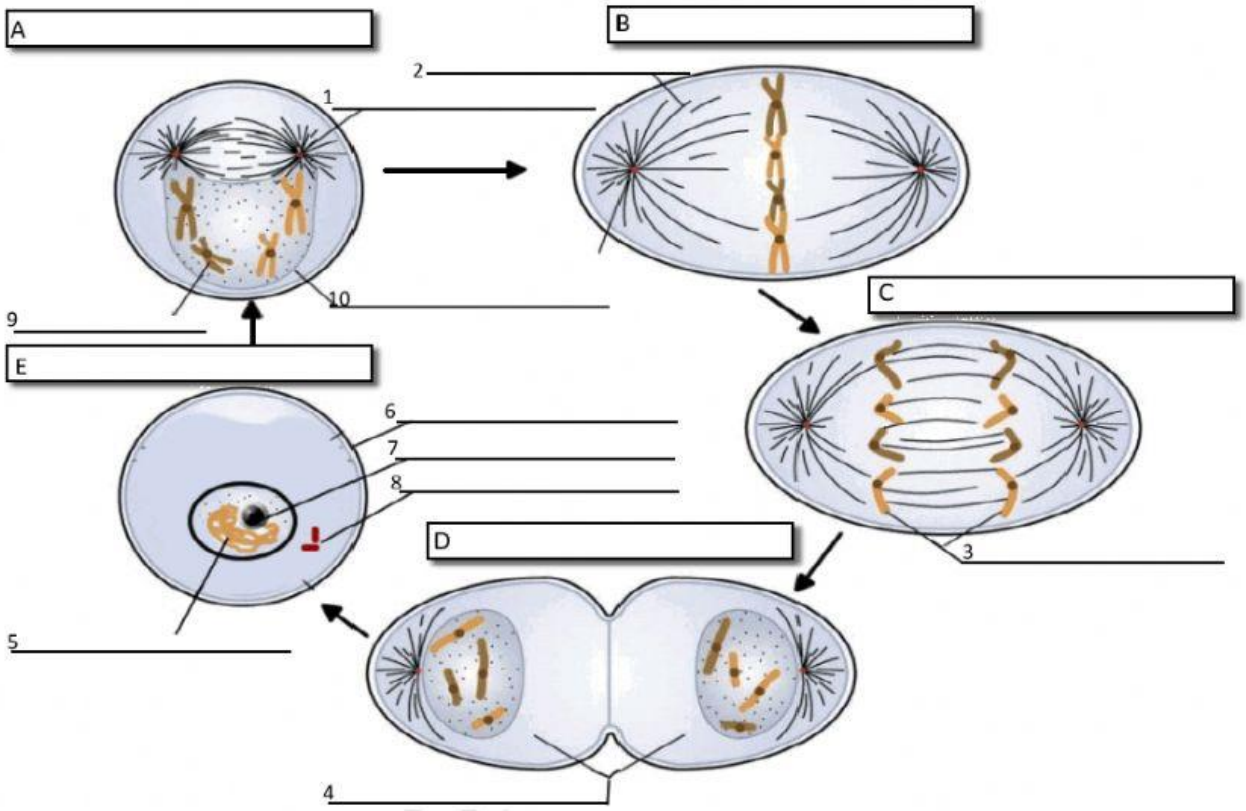
Label each part of Mitosis Below by filling in the spaces beside each letter. Use the numbers to identify specific parts of the cell.



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