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How Cells Divide: Mitosis

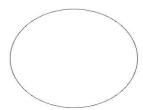
Worksheet to accompany PBS Nova Animation http://www.pbs.org/wgbh/nova/baby/divide.html

Step 1 – Before We Split

- 1. What is the end product of mitosis?
- 2. How many chromosomes are in the human genome?
- 3. How many chromosomes are in a sperm or egg cell

Draw the cell as it appears during this stage. Label the following parts:

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles



Step 2 - Interphase

- 4. What replicates during this time?
- 5. Why are chromosomes not visible during this stage?

Draw the cell as it appears during this stage. Label the following parts:

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles

