

Part I: Basic Cell Parts in Cell Division

The four main parts involved in cell division are:

- 1) cell membrane - its main function is to control what comes in & out of the cell.
- 2) nucleus - the control center that contains DNA, which gives the basic instructions for making proteins, which make up cells for the organism.
- 3) centrioles - organelles in the cytoplasm that help in cell division.
- 4) microtubules - act as the skeleton of the cell and help in cell division.

Part II: Why do cells divide?

The reason that cells divide is that

As the cell gets larger, the ratio gets lower, meaning the cell membrane cannot supply the inside with what it needs to survive.

Part III: What happens during mitosis?

The main functions of mitosis are:

- 1) growth
- 2) repair

Part IV: Go to [www.bubbl.us](http://www.bubbl.us) to make a concept map to explain the information you have learned today. Print it or email it.

Part V: Formulate 5 questions for an expert about out of control mitosis. Star your top 3.

- ★ 1) What treatments are available to help it?
- ★ 2) What <sup>new</sup> technologies are available?
- 3) We learned that cells get larger and the ratio gets smaller, what if this was reversed?
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_