**Grade 9 Science Test #1 Review:**

**The Cell, Cell Cycle, and Asexual Reproduction**

Over the next few days, we will be reviewing for our first science test which will be written on Tuesday, October 25th, 2022. For the test you will be allowed a cheat sheet as well as your cell cycle sort sheet.

**Cheat Sheet Rules:**

* You are allowed one 8.5” x 11” page and can use both sides **as well as** your Cell Cycle Sort assignment
* Everyone must create their own cheat sheet. You are not allowed to copy or use someone’s. You will hand-in your cheat sheet with your test.
* You must have your cheat sheet with you the day of the test. If you do not, then you write it the old-fashioned way!

I have no problem using class time to review, as long as it is being used effectively. If not, it will be left up to you to do on your own time and we will begin working on our next unit.

Your first test will include questions on the following information:

* The cell organelles and their functions (this may include labelling diagrams of plant and animal cells)
* The differences between plant and animal cells and why they exist
* Understanding that the cell is the most basic unit of life and what this means
* Understanding that the nucleus is the organelle that contains the organism’s genetic material and therefore directs a cell’s growth and reproduction
* The difference between diploid and haploid cells and the reason for the differences
* What DNA is, the shape of it, and what it is important for. Also be able to differentiate between chromatin and chromosome.
* The phases of the cell cycle and the stages of mitosis (know the main events and be able to diagram them)
* Explain the end results of cell division and how they compare genetically to each other and to the parent cell
* Explain why cell division is important (what does it accomplish for the organism)
* Understand that asexual reproduction requires 1 parent and that the offspring are genetically identical to the parent and each other
* Have a basic understanding of the different types of asexual reproduction used by living things that we covered
* The advantages and disadvantages of asexual reproduction

I will remind you that I am available for help outside of class time, with notice. Please make sure you use the tools provided to properly prepare yourself for your test. Remember that even though you are allowed to use a cheat sheet, **you still need to prepare** by making sure it is complete, taking time to look it over to make sure you fully understand the info and to know where the info is located.

Also remember that when answering the short and long answer questions, you will want to be as detailed and specific as possible. Written communication of ideas is not easy and requires constant practice. Good luck!