

Hello everyone! I am so excited to be teaching science in the fall with all of you! This notice is to start off the summer with some important information going into the new school year as well as summer work (I know, bummer). Attached to this notice is the science summer work for grade 8. There is one worksheet that needs to be completed before the first day of school. You will need to watch the YouTube video **“Structure of the Atom” by Beals Science School** to complete this worksheet. It is nothing crazy, just something to keep science on your mind throughout the summer. There is also a coloring sheet. If you complete this coloring sheet, it will get you **5 extra credit points** on our first quiz in science. If by chance you lose any of your worksheets before the beginning of the year, they will be on google classroom. Your google classroom code for 8th grade is **p6e5hlst**. Attached as well is your supply list for the incoming school year. This will also be on google classroom as well as the school website. I would like to go over how to set up notebooks and your binder when we have our first class together, so if you can help it, try not to use your school supplies before our school year starts. Towards the end of the summer, I will be posting the class syllabus on google classroom, but you will also get a handout version as well to either bring home or to keep in your binder. Also, I know that everyone knows me as Miss Olivia for now, but once the school year starts I will be going by my married name, Mrs. Moreira. If you or your families have any questions or concerns throughout the summer, please reach out to me by using my email below. I look forward to science in junior high in the fall!!!

Thank you,

Miss Olivia

obarrett@saint-michael.com



Name: _____

Date: _____

Class: _____

Part 1: Vocabulary Match

Match each term with the correct definition.

Terms

1. ____ Atom
2. ____ Proton
3. ____ Neutron
4. ____ Electron
5. ____ Ion
6. ____ Isotope
7. ____ Nucleus
8. ____ Atomic Number

Definitions

- A. The center of an atom containing protons and neutrons
- B. A positively charged particle
- C. A negatively charged particle
- D. Different forms of the same element with different numbers of neutrons
- E. The number of protons in an atom
- F. A neutral particle found in the nucleus
- G. The smallest unit of matter
- H. An atom with a charge because it gained or lost electrons

Part 2: Multiple Choice

Circle the correct answer.

1. Which particle has a negative charge?
 - a. Proton
 - b. Neutron
 - c. Electron
 - d. Nucleus
2. The atomic number tells you the number of:
 - a. Neutrons
 - b. Electrons

- c. Protons
- d. Isotopes
- 3. An atom becomes a positive ion when it:
 - a. Gains electrons
 - b. Loses electrons
 - c. Gains neutrons
 - d. Loses protons
- 4. Isotopes of the same element have different numbers of:
 - a. Protons
 - b. Electrons
 - c. Neutrons
 - d. Charges
- 5. Where are protons and neutrons found?
 - a. Electron cloud
 - b. Nucleus
 - c. Outer shell
 - d. Orbit

Part 3: Drawing an Atom

Draw and label an atom below. Include:

- Protons
- Neutrons
- Electrons
- Nucleus