

## Smiths Station High School

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### **Instructor:**

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**Course Description:** Physical Science is a conceptual, inquiry-based course that provides students with an investigation of the basic concepts of chemistry and physics. Students use evidence from their own investigations as well as the investigations of others to develop and refine knowledge of core ideas. Students will use tools and materials to solve simple problems and design solutions to these problems.

Students will engage in lectures, labs, projects, online activities, and simulations.

**There are 4 core ideas for Physical Science.** These include:

1. Matter and Its Interactions
2. Motion and Stability: Forces and Interactions
3. Energy
4. Waves and Their Applications in Technologies for Information Transfer

### **Pacing Guide**

**Materials:** Please do not forget to bring your chromebook to class. Although we will be mostly digital this semester, you will need the following:

- a binder or folder with paper
- pencils/pens
- highlighter

**Textbook:** Foundations of Physical Science (class set that stays in the room) along with an online version which will be shared through Google Classroom.

**Learning Tasks:** Students are expected to participate in all "Learning Tasks" which include: class discussions, online labs/activity, lecture/notes, projects, investigations, practice sheets, and review sessions. All Learning Tasks are **NOT** assessed, although feedback is routinely provided.

**Assessment/Reassessment:** Assessments will be used to determine if you have met a standard or not. Once an assessment has been returned you have the opportunity to reassess for a higher grade.

**Grading Components:** Each unit will consist of readings, vocabulary words, various activities- classwork/homework, quizzes/tests, projects, and labs through which you will demonstrate content skills.

**Course Grading Categories:**

**Tests/Projects/Quizzes – 50 %**

**Classwork/Homework – 25%**

**Labs/Activities – 25 %**

**Safety protocols (these may change over the course of the year):**

- Specifically for in-classroom:
  - IF required we will wear our masks
  - Wipe down your desk/chair/materials before leaving
  - No food/drink other than water in the classroom
  - Don't leave any possessions in classrooms

**Classroom Expectations:** My expectations for our class are that you conduct yourself with maturity and respect. I expect the quality of the work you submit to be of a high standard and on time. When you arrive to class you should bring an open mind, a respect of your peers and their views, a willingness to question the unknown and investigate your interests, an eagerness to participate in class, and finally, a sense of humor and the expectation of yourself to work hard and have fun.

- **Tardiness:** Students are expected to arrive to class on time and be active every day. Students arriving after the bell or asking to leave in the first 10 minutes of class will be considered tardy. Tardies that are 10 minutes late will be considered skipping.
- **Cell Phone Policy:** Your cell phone must be **out of sight** in the classroom. If these expectations cannot be followed I will hold on to your cell phone for the duration of the class and repeated failure will result in an office referral.
- **Substitutes:** When I am absent from class I expect you will conduct yourself in the same manner as you would if I were there teaching. Any student whose name is brought to my attention for misbehavior with a substitute will receive a consequence.
- **Safety in the Science Classroom:** All students are required to follow science safety rules. We will go over these rules in more detail and you will sign a safety contract. Please see the contract on the following pages for more details.

**\*\*\*\*\*Sign up for REMIND 101! Text @fgc7ac to the number 81010**

I will send an invite to your school email to join our Google Classroom!

*Go Panthers!!*

*Mrs. Andrews*

# Smiths Station High School Science Safety Contract

*Science investigations allow students to learn science through discovery. Many investigations utilize equipment and chemicals that must be used safely and responsibly. Science teachers will assure that you have a safe laboratory experience, but you must also do your part. Read the following safety contract. Signing the contract signifies you understand and will follow it. A parent or guardian must also sign so everyone is committed to safe laboratory practices.*

1. Follow all written and verbal instructions as directed by the teacher.
2. Never attempt unauthorized experiments. Do laboratory work only when the teacher is present.
3. Keep the work area clear of everything except laboratory materials.
4. Food and drink are not allowed in the laboratory area. Do not chew gum. When using chemicals or preserved specimens, keep hands away from face, eyes, mouth, and body.
5. Students are not permitted in any chemical storage room.
6. Never run in the laboratory. To prevent accidents, be aware of your environment at all times.
7. Your teacher will describe the location of exits and all safety equipment. Know where the closest fire alarm is located.
8. Use equipment (balances, Bunsen burner, etc.) in the correct way, as instructed by the teacher.
9. Properly dispose of broken glassware and other sharp objects in designated areas.
10. Any time chemicals, heat or glassware are used, students, teachers, and visitors will use laboratory goggles.
10. Lab aprons must be used when there is danger of chemical spills or biological contamination.
11. Long hair must be tied back and dangling jewelry and baggy clothing are not appropriate. Shoelaces must be tied and sandals are not allowed.
12. Immediately report any spills, accidents, or injuries to the teacher.
13. If a chemical splashes in your eye(s) or on your skin, flush with water. Inform the teacher immediately.
14. Never touch, taste, or smell chemicals or other substances unless directed to do so.
15. Follow all provided instructions when handling chemicals.
16. Follow all provided instructions when handling glassware, equipment, and when heating substances.
17. Never point the open end of a test tube containing any substance at yourself or others.
18. Dispose of all chemical and biological waste properly. The teacher will tell what materials can be poured down the drain and what materials must be placed in a waste container.
19. Clean all work surfaces and equipment at the end of laboratory work and return all equipment to the proper storage area.
20. Wash your hands with soap and water after performing all investigations and before you leave the laboratory area.
21. If you are unclear or confused about proper safety procedures and/or laboratory instructions, ask the teacher before proceeding.

**ADDITIONAL SPECIFIC INSTRUCTIONS WILL BE GIVEN PRIOR TO LABORATORY ACTIVITIES.**

# Classroom Management Plan Agreement

I, \_\_\_\_\_, Please print parent/guardian name have read and fully understand the rules, procedures, and consequences given in this classroom management plan. I have discussed this with my student and I support these policies.

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date

## Parent's Preferred Method of Contact (please mark all that apply)

\_\_\_\_ Email My email address is: \_\_\_\_\_

\_\_\_\_ A Phone Call You can reach me at: \_\_\_\_\_

\_\_\_\_ Other: \_\_\_\_\_

I, \_\_\_\_\_, Please print student name have read and fully understand the rules, procedures, and consequences given in this classroom management plan. I am prepared to abide by these rules and policies.

**Student Signature** \_\_\_\_\_ **DATE** \_\_\_\_\_

## Lab Safety Agreement

**Agreement:** I have read the above safety operating procedures and agree to follow them during any science lab, investigation, or activity. By signing this form, I acknowledge that given the biological, chemical or physical hazards, the science classroom, laboratory, or field can be an unsafe place to learn. The safety-operating procedures are developed to help prevent accidents and to ensure my own safety and the safety of my fellow students. I will follow any additional instructions given by my instructor. I understand that I may ask my instructor at any time about the safety operating procedures if they are not clear to me. My failure to follow these science laboratory operating procedures may result in disciplinary action.

**(Student Signature)** \_\_\_\_\_ **Date** \_\_\_\_\_

I have read and reviewed the lab safety rules with my child.

**(Parent/Guardian Signature)** \_\_\_\_\_ **Date** \_\_\_\_\_