Physical Science 2019-2020

Teachers Names: Mrs. Kathleen Hobbs (Team Enterprise) and Mrs. Angela Keel (Team Tesla)

Basic Supplies:

1. 3 sharpened Pencils with erasers/3 pens blue/black ink
2. Ruler and basic calculator
3. Color Pencils or Markers
4. Scissors/glue sticks
5. Folder with pockets/quad composition book (with graph paper)

Course Description: The Physical Science curriculum is designed to continue student investigations of the physical sciences begun in the elementary grades and provide students with the necessary skills to have a richer knowledge base in physical science. This course is designed as a survey course of pre chemistry and pre physics. This curriculum includes the more abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field work using processes of inquiry.

It is critical that you realize this is a high school course and the grade earned will become a permanent part of your high school transcript, averaged in for your high school GPA. The course can be repeated in a high school setting but the two grades will be averaged. This original grade will not be replaced.

Units that will be covered in this course during the School Year**:**

Unit 1: Force, Mass, Motion	Unit 6: Atoms
Unit 2: Energy, Heat Capacity	Unit 7: Periodic Table
Unit 3: Electricity and Magnetism	Unit 8: Matter, Density, Law of Conservation
Unit 4: Waves, Properties	Unit 9: Matter, Gas Laws
Unit 5: Nuclear Energy/Radioactivity	Unit 10: Solutions, Solubility, Acids and Bases

Format: This class will be focused on students actively engaging in physical science, explaining their thinking, justifying their work, using the Scientific Method, making connections, practicing safety in laboratory investigations while developing critical thinking in the laboratory, and using appropriate technology. Students will have opportunities to work individually, in pairs, and in groups. We will work on scientific learning tasks designed to promote critical thinking. In order to maximize on task class time, students will place their personal devices in a designated pocket in a holder hung in the classroom or keep it in their bookbag. Personal devices should be on silent or turned off during class. Students may not access/use their personal devices for the duration of class unless permission is granted by the teacher.

Academic Grading Policy: Academic grades will be based on scores from assessments (60%), and class work, which includes warm-up, homework, etc. (40%). Work is graded not only on getting the correct answer, but using the correct lab protocol, working as a team, developing scientific vocabulary, explaining the processes, and writing to show a deep understanding of the topic.

Grading Scale:

A = 90%-100% **B = 80%-89%** **C = 74%-79%** **D = 70%-73%** **F = 0%-69%**

- All approved honors courses will have three (3) bonus points added to the ***final semester/year*** numerical grade of 70 or higher. These points will be added by the Student Information Systems Department on each state approved course number.

Methods of Evaluation: Tasks (activities, mini labs, web centered work); Tests; Projects; Quizzes; Daily Assignments; Labs, Group Activities/**totalling 80% of the overall grad**e; **EOCT/ which is the remaining 20% of the overall grade**.

- Tasks are designed to answer the question "How is this used in real life?" Some tasks are designed as a cooperative learning experience and some will be individual assignments. Each student is responsible for turning in their own copy of the task and will receive an individual grade; NOT A GROUP GRADE.
- Pre tests will be administered at the beginning of each unit. These are diagnostic tests for data information to determine goal setting for students. Graded tests will be administered at the end of each unit.
- Quizzes will be given as related to the material. **Students are responsible** for scheduling a time to make-up any missed quizzes.
- Homework is a method of reinforcement, preliminary research, and independent practice. Students are expected to turn in all work the day it is due. There is usually no homework assigned but there may be assignments from class that are not complete, studying for an assessment, or time spent working on a project.
- Notebooks are required to stay organized in Physical Science. Notebooks will be important for students in studying, reviewing, and referencing past concepts. Students can keep a notebook on their iPads in an app such as Evernote, Paper by Fifty-Three, or in a Google Doc.. The composition quad paper notebook will be kept for labs and handouts.

Make-up Procedure:

It is the **student's responsibility** to find out what work was missed during an absence and make it up within three school days. An accessible list of assignments will be available for all students. Assignment sheets (if required) will be available in the classroom. Students should make the work up in a timely manner as much of the learning in this class is cumulative and could affect future assignments.

Late Work Procedure:

It is the **student's responsibility** to be mindful of due dates and to turn in work on time.

Tutorial: At the student's/parent's request.

Classroom Rules:

1. Be on time and begin working on the warm-up activity immediately; do not hesitate nor linger in the hallways and doorway
2. Respect all faculty and staff in the building, your classmates, other students in the building,and school property. Please respect everyone's personal space and property.
3. Utilize your school provided iPad properly. **Insurance for this iPad is highly recommended as this will be your primary access to the technology necessary for success in this class.**
4. Come to class prepared to learn.
5. Phones/personal devices are to be put away for the duration of class unless otherwise approved by the teacher.
6. Please follow the Student/Parent Handbook and SCCPSS Code of Conduct for Success.
7. Food and drinks are not allowed in the science lab. If you bring bottled water, you may drink it in the designated areas.
8. Passes are only given for emergency purposes.
9. It is imperative that students are always in regulation of the school uniform dress code.
10. Always wear your School I.D. Badge around your neck at all times.

Parents:

Please review this syllabus with your child. Open communication is the best way for us to work together for the benefit of your child, so if you have any questions or concerns- please contact either of us at the school at **(912) 395–3500** or email ***kathleen.hobbs@sccpss.com*** *(Team Enterprise) or* ***angela.keel@sccpss.com*** *(Team Tesla)*. You can also access our websites at **kathleenhobbs.weebly.com** and **angelakeelsci.weebly.com**. Team information is also available via padlet at https://padlet.com/angela_keel/teamenterprise1920 (Team Enterprise) or https://padlet.com/angela_keel/teamtesla_1920 (Team Tesla).

We are looking forward to a productive and successful year with your child!