



Hercules Titans

Course Syllabus

COURSE TITLE: 8th -grade Physical Science

TEACHER: AMAJIOYI, C.A.

SCHOOL YEAR: 2018 - 2019

SEMESTER: (Fall/ Spring)

CONTACT INFORMATION:

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COURSE DESCRIPTION:

Physical Science is the science of the physical universe. Physical science is categorized into Chemistry – the study of properties of Matter, and how matter changes, while Physics is the study of Matter, Energy, Motion, and Force.

GOALS AND OBJECTIVES:

At the end of the school year, students will be able to understand and master:

1. The meaning of Physical Science, Scientific Inquiry, Scientific Method Format, Measurement, Mathematics Skills for Science, and the importance of Graphs in Science.
2. Investigation and Experimentation; The Nature of Matter.
3. The Phases of Matter – Solid, Liquid, and Gas.
4. Periodic Table of Elements.
5. Atoms and Bonding.
6. Chemical Reactions.
7. Acids, Bases, and Solutions.
8. Carbon Chemistry.
9. Motion and Energy.
10. Forces.
11. Forces in Fluids: Density & Buoyancy.
12. Astronomy – Earth, Moon, and Sun.

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TIMELINE:

AUGUST /SEPTEMBER: Introduction to Physical Science; Scientific Inquiry; Measurements; Density; Science and Society – Should the United States Go Metric?

OCTOBER/NOVEMBER: The Nature of Matter; Solids, Liquids, and Gases.

NOVEMBER/DECEMBER: The Periodic Table of Elements; Unit Two – Atoms and Bonding; Chemical Reactions.

JANUARY/FEBRUARY: Acids, Bases & Solutions; Carbon Chemistry.

MARCH/APRIL: Motion, Forces, and Energy.

MAY: Forces – The nature of Force; Friction, Gravity, and Elastic Forces; Newton’s Laws of Motion; Forces in Liquids – Pressure, Floating & Sinking, Pascal’s & Bernoulli’s Principles.

JUNE: Unit Four –Astrology.

NOTE: Students MUST expect continuous science experiments and science reports – following the scientific method format (individual & group hands-on), Projects, and Research Reports - as a means of applying the concepts studied in class.

TEXTBOOK: Focus On California Physical Science: Prentice Hall.

REQUIRED MATERIALS:

1. Bring Science Log to class Monday – Thursday (Science log is the “Bible” of this class).
2. Bring sharpened pencils, black/blue ink pens (only), clean erasers, and other learning materials needed for projects/research reports.
3. You MUST come to class with all the required materials. THE TEACHER DOES NOT PROVIDE PENCILS OR PENS TO STUDENTS.

GRADING:

School-wide scale: 90+ = A
80-89 = B
70-79 = C
60-69 = D
59 and below = F

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Percentages that comprise Grade:

Science Experiments: 20%

Projects/Project reports (scientific method format): 25%

Research Reports/Creative Writing: 20%

Science Log Class Notes (must be neat and up-to-date): 15%

Homework: Formative Assessment -redirecting students to produce quality work.

Quizzes and Tests: 20%

Students' Work: 100% Full Credit: work is on time and complete (Parents/Guardians, please take note).

(Format: Name, Date, Science 8, Period in upper-right of paper, typed, etc).

50% work is incomplete, corrections and or class notes are not recorded as instructed.

0% credit: no evidence of work submitted (my students are advised not to fall into this category).

Extra Credit: By special arrangement, ONLY! Students who fail to submit their class work on time, and or show no evidence of work, do not qualify for extra credit program. Extra credit is for students who are on task but want to improve their grades.

Participation: Students are required to participate actively in all class discussions and group activities. Participation is assessed continuously.

Tardies: DO NOT BE LATE TO CLASS. If tardy, please provide a note from parent, teacher, counselor, or administrator.

PARENT NOTIFICATION:

*** NOTE TO ALL PARENTS: PLEASE CHECK YOUR CHILDREN'S PLANNER DAILY FOR SCIENCE EXPERIMENTS, HOMEWORK, PROJECTS, RESEARCH REPORTS/CREATIVE WRITING, AND ANY OTHER INFORMATION THAT IS VITAL TO THE SUCCESS OF YOUR CHILDREN. Encourage your children to read the information on the class white board and copy essential instructions – Monday – Friday.** Don't fail to email me if you have any concerns, and don't wait until it is too late to contact me regarding your child's performance in class.

Any student who is in danger of failing SCIENCE 8 (grade below a "C") will have parent notification, by e-mail (school-wide policy). Please make your email available for consistent and important parent-teacher communication.

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ABSENCES:

Excessive Absences can affect a student's grade in a negative way, which may include being dropped from course after 15 Absences in a Semester (school-wide policy).

CLASS RULES;

In addition to the school rules/norms stated in the Student Planner, the following rules also apply:

Positive and respectful attitude should be the norm in our classroom. There is zero tolerance for negative attitude.

The following simple class rules MUST be in force:

1. Everyone in our class is worthy of your respect; we are family! Our class is "BULLY-PROOF!!
2. Be in class when the bell rings.
3. Come to class prepared – bring all the required learning materials for the day (NO EXCUSES).
4. No food or beverages/ gums, sunflower seeds allowed in our classroom.
5. No electronic gadgets – cell phones, etc. should be displayed in the classroom.
6. Respect yourself and others. IT IS THE FUNDAMENTAL RIGHT OF EVERY STUDENT IN OUR CLASS TO LEARN, AND FOR OUR TEACHER TO TEACH WITHOUT DISRUPTION.
7. You serve 15 –minute detention after school for class disruption. IT IS YOUR CHOICE!!!
8. This is Physical Science classroom. We must keep our learning environment clean at all times. No one leaves until the classroom is clean.
9. Our classroom is a learning laboratory and not a recreational center. We all need active listening and constructive participation.
10. Never leave your seat without the teacher's permission (except group activities).

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PARENTAL REVIEW CONFIRMATION

I have read this Course Syllabus (and reviewed it with my child).

Teacher: AMAJIOYL, C. A.

Course: SCIENCE 8 – PHYSICAL SCIENCE: 2018 / 2019

Student (print name): _____

Student (signature): _____ Date: _____

Parent/Guardian (print name): _____

Parent/Guardian (signature): _____ Date: _____

Parent Contact Information:

Phone: _____

Cell: _____

E-mail: _____ *(required)

(Please return to teacher immediately)