**Physical Science 8th Grade Syllabus**

**Marbury Middle School**

**2022-2023 School Year**

**Teacher : Mrs. Janae Pinson**

**Email: robin.pinson@acboe.net**

**School Phone: 334-365-3522**

**Room # 130**

**Course Description**

Physical Science is the study of physics, chemistry, matter and energy. Non- living materials and natural sciences are the primary focus that will be studied in contrast to biological sciences that study living systems. Real world experiences and occurrences will be referenced often in an effort to help students understand the subject matter and to help prepare them for future science exploration.

**Classroom Rules:**

1. Be on time, on task and prepared to learn every day!
2. Respect the teacher, classroom, fellow students and yourself!
3. Be responsible for your own learning!
4. Cleanup after yourself and your peers!
5. Keep ALL personal devices (smart watches and ear buds included) put away and out of sight!
6. No food or drink unless given permission.

**Consequence Sequence:** 1. Warning (talk to Student)

2. Contact parent (email or letter)

3. Break Detention

4. Morning Detention

5. Office Referral

**Required Materials: Pens *and* pencils, paper, (1) 1 inch three-ring binder with dividers, (1) composition notebook.**

**Required Assignments:** Each unit of study will be accompanied by 1-2 *summative* assessments, primarily consisting of various performance based assessments that require writing, research, well-executed lab protocol, and creativity. The number of *formative* assignments such as quizzes, homework, labs, etc. will be determined along the course of the school year. Arrangements for make-up work must be made within two (2) days after returning from an excused absence. Please refer to the Student/Parent Guide for more information and detail.

**Assessments**: Exams, quizzes, lab activities, binder checks, classwork, homework, video discussions/responses and presentations are examples of assessments that will be given throughout the course.

**Grading:** Major Grades (Tests, Projects, Labs etc) : 65%

Minor Grades (quizzes, binder checks, classwork, etc) : 35%

**Grading Scale: 90-100=A, 80-89=B, 70-79=C** **, 60-69=D, 59 –0 =F**

**Course topics include but are not limited to:**

1. Scientific Method, Measurements and Lab Safety
2. Atoms, Periodic Table, Elements
3. Chemical Reactions and Mixtures
4. Physics
5. Forces and Motion
6. Simple Machines
7. Energy, Waves and Sound

**Physical Science Lab Safety Rules (Please keep this in your binder for future reference)**

1. Use common sense.

2. Know and practice good body mechanics.

3. No work is to be done in the lab without the instructor present.

4. Know your lab procedure before performing the lab, including safe handling of materials and equipment. Ask for instructions whenever you are confused.

5. Read the lab thoroughly before you start working on it.

6. Know the location of the safety blanket, the fire extinguisher, the eye wash station, the safety shower and the spill kits.

7. Wear safety goggles and close-toed shoes when performing experiments. Tie back loose hair when performing experiments.

8. Always wear gloves when handling microorganisms or potentially hazardous materials. Once you have (or potentially have) had direct contact with these agents, your gloves are considered contaminated. You cannot touch any object that is usually touched without gloves, especially outside your workstation (i.e. faucets, doorknobs, light switches). Clean (potentially) contaminated equipment as soon as the process requiring gloves is finished.

9. Observe all labels on chemical bottles.

10. No food, drink or gum is allowed in this classroom during laboratory experiments.

11. Wash hands before and after working in the laboratory.

12. Clean the lab table top before and after lab exercises.

13. No personal belongings or items not needed for the experiment are allowed in the lab area. Bring designated notebook and pen/pencils to be kept in the lab for the year.

14. Avoid unnecessary activities as excessive movement can lead to contamination of the lab. NO ROUGH PLAY in the lab such as running, hitting, throwing, pushing/shoving, unnecessary noise, etc.

15. Never eat, inhale or unnecessarily handle lab agents/materials.

16. Discard all materials as instructed by the teacher.

17. RETURN all equipment to proper locations after use. CLEAN UP your workstation as soon as the experiment is finished and WASH all lab ware as instructed by the teacher. DISPOSE of materials in the properly designated container. DISMISSAL from class occurs after the lab is clean and safe.

18. Make sure hot plates; gas and water lines are turned off when not in use. Double-check and check your neighbors.

19. Students are not allowed in the prep areas (except when accompanied by the teacher to obtain lab components).

20. EVERY lab accident must be reported immediately to the teacher, no matter how small or large. DO NOT endanger yourself or others by waiting or by covering up an accident.

21. ***If in doubt, always ask the teacher for clarification!!!***

**Classroom Contract and Lab Safety Agreement**

**(Due back to Mrs. Pinson by Friday August 12th, 2022)**

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| 1. I understand that attendance is a vital component to success in this course and will make every effort to be on time and present in class each day. When I have to be absent from class, I will contact Mrs. Pinson as soon as possible (2 Days Max) to arrange for catching up on missed work.  2. I have read and understand the grading policy.  3. I will follow all classroom/lab safety rules at all times.  4. I know that teamwork is vital to not only my success, but to that of my peers. As such, I commit to being a valuable and contributing member of my team.  5. Cheating in a science classroom can take many forms – passing someone else’s work as your own, fabrication (lying) about results obtained, etc. The integrity policy for this class is that all students submit their own, authentic work.  6. I understand that I will be participating in various lab activities and that I must record data and observations obtained when instructed to do so. | | |

7. I agree to all of the terms set forth in the syllabus as well as the school and district policies.

* **As a student and parent/guardian, I have read and understand the information outlined in the syllabus. If I have any questions or concerns I will contact Mrs. Pinson by phone or email as soon as possible.**

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

Student Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Lab Safety: Safety and health are basic values in the sciences. Students are required to adhere to all lab safety procedures at ALL TIMES!***