**Physical Science Syllabus: Mr. Norskog**

mnorskog@lawrenceal.org **Conferences: Available upon request**

**General 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. The first half of the course is devoted to chemistry and covers topics like atoms and interactions between different forms of matter. The second half of the course is devoted to concepts in physics including ideas like friction, momentum, and energy.

**Chemistry Portion**

Unit 1: Introduction to Physical Science

Unit 2: Atomic Structure

Unit 3: The Periodic Table

Unit 4: Chemical Interactions

Unit 5: Solutions, Acids and Bases

Unit 6: Nuclear Chemistry

**Physics Portion**

Unit 7: Matter and Change

Unit 8: Objects in Motion

Unit 9: Forces and Potential Energy

Unit 10: Kinetic Energy, Work and Machines

Unit 11: Waves

Unit 12: Sound

Unit 13: Introduction to Energy

Unit 14: Visible Light

Unit 15: Electromagnetic Energy

Unit 16: Electricity

Unit 17: Magnetism

**Student Evaluation**:

Course grades are determined as follows –

| | |
|---|---|
| Practice assignments, ck12, pogils and participation | =10% |
| Labs, quizzes, notebook and small projects | =30% |
| Tests, and major projects | =60% |

Extra Credit – There are no extra credit assignments

Late Work – No late work will be accepted after the applicable unit test has been taken. Per district policy, tests must be made up within three days of returning to school. All missing work must be turned in within that time, and will not be accepted beyond the test make-up date.

**Assigned Seatin**g:

Seating is assigned. Do not reassign yourself to a different seat without permission. The seating chart will be changed as necessary to facilitate learning and attention.

**Absences**:

Students are responsible for making up any missed work. Missed tests must be made up no later than three days upon returning to school and it is the student's responsibility to schedule a time to do this. Check google classroom for missed assignments and ask a classmate for help with updating anything you missed for your notebook. For missed labs, an alternate assignment may be used - email the instructor, indicating which lab was missed, and the instructor will get back to you with a plan for the make-up.

**Cheating**:

Any student caught cheating will receive a zero for the assignment in question, including tests. Zeros have a huge impact on grades; it is never worth it to cheat. Cheating includes sharing answers, copying and unauthorized use of electronic devices. In the case of an open note test, using someone else's notes or sharing notes with another student is considered cheating. It goes without saying that cheating on an assignment and helping another student cheat *are both cheating.*

**Folders/notebooks**:

> You are responsible for keeping your notes up to date. ***Notebook checks may occur at any time.*** If you are absent, arrange to catch up any missed notes from a classmate within the time limit for make-up work.

**Supplemental Materials used in this class include:**

Alabama Inspire Physical Science, McGraw Hill ISBN 978-1-26-682882-9

Chemistry powerpoints created by James Aurum. Can be found at: https://www.aurumscience.com/chemistry.html

Physics powerpoints based on the class textbook. Can be found in the google classroom for this class.

Educational videos on youtube from channels such as https://www.youtube.com/@veritasium , https://www.youtube.com/@ProfessorDaveExplains and https://www.youtube.com/@crashcourse

Practice question sets composed on https://www.gimkit.com/ study sets will be posted in google classroom.

Laboratory kits purchased from https://www.flinnsci.com/ which are aligned to the Alabama state standards for this class.

**Acknowledgement of syllabus:**

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Parent/Guardian Signature Student Signature