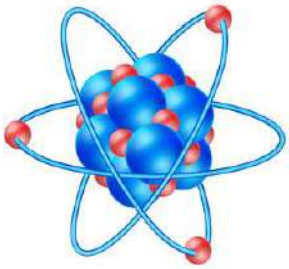
Jefferson County Middle School
Physical Science Course Syllabus
Mr. Thankappan/Mrs. Moment
2020-2021 School Year



Students, Parents and Guardians

Welcome to Physical Science at Jefferson County Middle School! We are very excited to engage our students in Physical Science—The Study of *matter* and *energy*. From the collisions of molecules within our cells to the inner workings of a refrigerator. This course will help us all to better appreciate the natural laws by which our physical world operates, which in turn provides the platform for the magnificent processes of life.

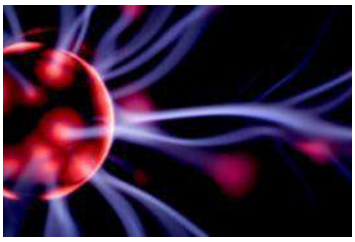
I hope to draw connection points between content and current issues in our world. Parents, please encourage your son or daughter to actively participate in class, complete all assignments thoughtfully and on time, and to study regularly outside of class. Attached you will find the course syllabus.

Please feel free to contact us at any point by email thankappanp@jefferson.k12.ga.us or momentb@jefferson.k12.ga.us) or any day from 7:45pm to 3:45pm at (478) 625-7764.

Sincerely,

Mr. Thankappan/Mrs. Moment
8th Grade Blue/Gold Science Teachers
Jefferson County Middle School





Course Description: Learning will take place through labs, demonstrations, direct instruction, reading and writing.

Standards: Course standards can be found at www.georgiastandards.org

https://www.georgiastandards.org/Georgia-Standards/Documents/Science-Eighth-Grade-Georgia-Standards.pdf

Course Content

1st nine weeks (Aug. 10th – Oct. 16th)	2nd nine weeks (Oct. 19th - Dec. 10th)	3rd nine weeks (Jan. 11th - Mar. 18th)	4th nine weeks (Mar. 21st - May 6th)
Unit 1 - Matter • **Elements, compounds, mixtures** • **protons, neutrons and electrons** • **balanced chemical equations** • **solids, liquids, gases** • **chemical properties of matter** • **separating mixtures** **Unit 2 – Energy** • **kinetic and potential energy** • **transformation between kinetic and potential energy** • **type of energy transformations** • **effects of heat transfer**	**Unit 3 – Force and Motion** • **relationships between speed and distance and velocity and acceleration.** • **balanced and unbalanced forces** • **inertia** **Unit 4 - Waves** • **electromagnetic and mechanical waves** • **illustrate the relationship electromagnetic spectrum and energy** • **illustrate practical applications of the electromagnetic spectrum.** • **compare and contrast light and sound waves**	**Unit 4 - Waves** • **density of media and wave behavior** • **relationships between wave properties** • **effects that lenses have on light.** **Unit 5 - Electricity & Magnetism Forces** • **gravity, electricity and magnetism as major forces** • **distribution of charge in conductors and insulators.** • **strength of electric and magnetic forces.**	**Review of all Standards**

A unit test will be given approximately after completion of each unit.

Learning Resources/Textbook(s): Glencoe, Physical Science.

With the emergence of technology as a tool for learning, JCMS will be utilizing various resources to assist with instruction, including Google Classroom and interactive websites. In addition to these web based instructional tools, this course will also have a classroom set of textbooks.

Think. Work. Be involved. Be consistently curious. LEARN. You will thrive!

The number of formative grades such as quizzes, homework, etc. will be determined along the course of the school year. ***Students should expect a homework assignment every day and should look over notes and new material each day and also check Google Classroom everyday for assignments.***

Items needed for class: Pens/pencils, notebook paper, three-ring binder, dividers, graph paper (optional) inexpensive calculator and your youthful energy as well as mental focus.

Makeup Work: When students are absent from school, they are responsible for all missed work and assessments. Students should get work from the "missed assignment folder". Students have til the next day to make up missed classwork and homework. The teacher has the discretion to grant a longer period of time to make up work if there are extenuating circumstances.

Late Work: Homework must be completed on the day it is due. Long-term projects must be turned in on the previously scheduled date. If a student is absent on that day, they must turn in the assignment the day they return to possibly receive full credit.

Major Tests and Projects:

- Quizzes-given weekly; Unit test - given at the end of each unit
- Research Reports, labs and presentations (face to face learning)
- Cumulative Exam

A = 90 – 100
B = 80 – 89
C = 70 – 79
Failing = Below 70

You have full control over your success. Every decision you make throughout the year will lead to a predictable outcome with criteria that is consistent for every student.

Work Habits will also be evaluated every term based on the categories of Responsibility, Participation, Assignment Completion, & Interpersonal Skills

Let's make this a great year together.

Please Fill in the following (parent info sheet and lab safety contract) and return it to your teacher.

I have read all of the information in this packet and I understand the expectations, rules and the consequences therein.

Student's Signature: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____

Parent/Guardian Contact Number: ( ) ____ - _____

Parent/Guardian email address: _____

Comments/Concerns:_____

JEFFERSON COUNTY SCHOOLS

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Jefferson County Middle School

Student Laboratory Safety Agreement

In order to conduct safe and effective laboratory activities, all students must follow proper laboratory procedures. Please initial each item and sign where indicated.

1. Follow all verbal and written instructions given by the instructor.----------

2. Do not eat, drink, apply cosmetics, manipulate contact lenses, or chew gum in the lab.---------

3. Keep work areas tidy. Keep aisles and exits clear, and move backpacks, jackets, and other personal items out of the way of lab work.----------

4. Wear any approved safety equipment (aprons, gloves, etc.) as directed by the instructor.---------

5. Report all accidents, spills, or injuries to the instructor immediately.----------

6. Do not remove chemicals, specimens, equipment, or other supplies from the lab. ----------

7. Dispose of all waste materials only as directed by the instructor. ----------

8. Wash hands with soap and water after handling any laboratory materials. ----------

Do you have allergies or other medical conditions that your instructor should be aware of? **Yes……. /No…….. If yes, please describe:**

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I have read and fully understand the rules, safety practices, and regulations governing my conduct in the science laboratory. I will abide by these rules to ensure my safety and the safety of all laboratory participants. I will follow all written and verbal instructions given by the instructor and ask questions if I do not understand a direction or procedure. I understand that violation of these rules may result in removal from the laboratory, removal from the science class, a lowered grade, or other consequences as determined by the instructor.

Print Student's Name: …….. Signature: ……Date:.....

Print Parent/Guardian's Name: …….
Signature:…… Date: …….