

***Please keep this syllabus in the front of your notebook at all times.***

**Infinite Campus:** All students with internet access are encouraged to become registered users of Infinite Campus so that you may keep up with your grades in all classes. Have a smartphone? Download the app! District ID: HMYTHJ. Parents may register then access this information by going to our schools website and click the quick link for Parent Portal. Students should check grades and missing assignments at least once a week.

**Google Classroom, webpage:** my webpage, accessed through [www.hccmsonline.com](http://www.hccmsonline.com), provides a calendar of lesson plans (with homework listed), important documents, and links to various science resources. Students will join my google classroom, using their student google account. Lesson presentations and classroom documents will be uploaded weekly. These are useful tools during an absence.

**Remind 101:** Students and parents will join my Remind 101 for important announcements and reminders.

**Conferences: Mondays and Fridays** 9:00 to 10:00 by appointment through the counselor's office (706) 628-4951.

**Recommended Supplies:**

- *Binder with 3 dividers (sections to include: Notes, Classwork/Labs, Review)...binder can be combined with another subject*
- *Composition notebook **or** spiral notebook (for daily warm ups)*
- *Loose leaf paper*
- *Pencils*
- *Cap erasers*
- *Hand-held sharpener*
- *Colored Pencils or markers*
- *Glue sticks*

**Grading Schedule:**

❖ Classwork	45%
❖ Homework	15%
❖ Tests/Quizzes	25%
❖ Final Exams	15%

**Units of Instruction:**

1<sup>st</sup> 9 Weeks: Structure and Properties of Matter; Electric, Magnetic, and Gravitational Forces  
2<sup>nd</sup> 9 Weeks: Static Electricity; Motion; Potential and Kinetic Energy  
3<sup>rd</sup> 9 Weeks: Energy & Transformations; Heat Transfer; Waves  
4<sup>th</sup> 9 Weeks: Review/re-teach standards with activities, tasks, and projects to prepare for GaMS and 4<sup>th</sup> nine weeks exam

***Curriculum meets all National Science Standards and correlates to the Georgia Standards of Excellence. <https://www.georgiastandards.org/Georgia-Standards/Pages/Science.aspx> . A summary is on the back.***

## Georgia Standards of Excellence Summary

### **S8P1. Matter**

- a. Pure substances (elements & compounds) and mixtures (homogeneous & heterogeneous).
- b. States of Matter (solid, liquid, gas, plasma), phase changes.
- c. Chemical & physical properties (including density).
- d. Chemical & physical changes and evidence a chemical change has occurred.
- e. Atoms & identifying patterns in the periodic table.
- f. Law of Conservation of Matter & balancing chemical equations.

### **S8P2. Energy**

- a. Kinetic energy and potential energy.
- b. Kinetic and potential energy transformations.
- c. Forms of energy (MR HC GENES) and energy transformations.
- d. Heat transfer (conduction, convection, radiation).

### **S8P3. Motion**

- a. Speed, velocity, acceleration, and motion graphs.
- b. Newton's Laws of Motion, balanced and unbalanced forces.
- c. The relationship between force, mass, and acceleration ( $F=ma$ , Newton's 2nd Law).

### **S8P4. Waves**

- a. Similarities and differences between electromagnetic and mechanical waves and the wave parts.
- b. Relationship between the electromagnetic spectrum and energy.
- c. Practical uses (communication, medical, military) of the electromagnetic spectrum.
- d. Reflection, refraction, absorption, diffraction of light and sound waves through various materials, and how we see color.
- e. Wave speed through different mediums (light vs. sound).
- f. Wave properties (frequency, amplitude, wavelength) and energy.
- g. Lenses: concave & convex.

### **S8P5. Forces in Nature**

- a. Magnetic, electric, and gravitational fields.
- b. Static charge/electricity: conduction, induction, friction, and distribution of charges in conductors and insulators.
- c. Factors that affect the strength of magnetic, electric, and gravitational forces (including electromagnets, generators and motors).