

## 8th grade science syllabus

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8th grade science is a physical science course with an introduction to concepts studied in physics and chemistry. Physics concepts are studied in the first semester. Students acquire a conceptual understanding of various phenomena, using mathematical relationships where appropriate. Writing skills are incorporated via lab reports, news articles and other assignments. Grades are categorized into exams (1 cumulative exam per 9-weeks), quizzes/projects (about 5-8 per 9-weeks) & HW/daily grades, and a student's grade is calculated using a weighted average method. Exams are 15 %, quizzes/projects are 43 % and HW/daily grades are 42 %. Individual grades/assignments and a student's current average can be followed/checked on the parent's INOW portal (please email Melanie Lee with any log-in issues). There are no extraordinary classroom supplies requirements, though students might want to use a dry erase marker from time to time (please purchase only markers that are marked "low odor"). Although classroom assignments are always posted on googleclassroom, along with due dates, and assignments that are uploaded via googleclassroom are graded and returned via the website, always check INOW for verification of completed assignments and grades. Some retakes on assignments are possible, though handled differently for each assignment.

<u>Physics (1st semester)</u>	<u>Chemistry (2nd semester)</u>
<b>Motion &amp; Newton's Laws</b> Newton's Laws: forces, inertia & acceleration Gravity	<b>Atomic structure</b> Ions and isotopes Radiation Electron structure
<b>Electric and Magnetic Charges</b> Electrical Charges Magnetism	<b>Properties of Matter</b> Volume & Density Changes in Properties Identification Gas behavior
<b>Energy</b> Types of Energy Energy Conversions Energy Transfers/Measurements	<b>Chemical Reactions</b> Combustion acids/bases Physiology Energy conversion
<b>Waves</b> Wave Measurements Electromagnetic Waves Soundwaves Lightwaves	

*Welcome to the 2018 school year for the Alabama School of Fine Arts . It is an honor to teach students that have pursued and developed their artistic interests to the degree necessary to receive an invitation to study here.*

*I hope you have a fabulous year!*