

**Newmarket Junior Senior High School**  
**Foundations of Physical Science with Integrated Earth Systems Science, 1 credit**

Mrs. Hatfield – Room 215  
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Office Hours: Advisory or by appointment

**Course Description & Calendar:**

High school Foundations will introduce the fundamental skills that students will need to pursue further sciences. An emphasis is placed on developing the skills of scientific inquiry, by using the scientific method (research and experimentation) to problem solve and develop critical thinking skills. *Fall Semester* will focus on the properties and interactions of matter as we investigate chemistry. Students will engage in discussions as well as use a variety of media and resources including books, news articles, and current scientific data to research and study the foundations of chemistry. Students will be expected to map, interpret, and present data. Chemistry concepts will be applied to our knowledge of Earth as a system, involving relevant topics from geology, oceanography, meteorology, and astronomy. *Spring Semester* will be a continuation of the fall semester, focusing on energy transformation and motion as we explore physics. Students will engage in discussions as well as use a variety of media and resources including books, news articles, and current scientific data to research and study the foundations of physics. Students will be expected to map, interpret, and present data. Physics concepts will be applied to our knowledge of Earth as a system, involving relevant topics from geology, oceanography, meteorology, and astronomy.

*Integrated Science is a college preparatory course. Class will be split into lecture and lab time.*

**Grading Policy:**

Your grade each quarter will consist of a variety of assignments. Classwork grades will depend on participation and effort as well as work turned in. Assessments may include writing assignments, projects, or traditional written tests.

These activities will be weighted as follows:

Assessments	40%
Labs	30%
Quizzes	20%
Classwork	5%
Homework	5%

**Required Materials:**

- 2 inch 3 ring binder
- 5-tab subject dividers
- 3 hole punched, lined paper for note-taking
- Assignment notebook
- Pens, pencils, highlighter
- Scientific calculator

**Course Expectations:** Be respectful, responsible, honest, and cooperative

- Come to class prepared. Bring all required materials, completed homework, and your charged Chromebook.
- Take responsibility for your work. See the NHS handbook for guidelines regarding academic honesty. Review how to properly cite sources or consult one of your teachers.
- Follow all safety rules and directions, and listen silently to announcements.
- If lab directions are not followed, alternative assignments will be completed and consequences will be given as necessary.
- Plan to leave the classroom for emergencies only. If you must leave, always sign out and use a hall pass.
- Do not get ready to leave the classroom until the teacher dismisses you.

### Advisory:

- ADVOCATE for yourself! Schedule yourself to classes where you need to make up work, complete extra studying, prepare for upcoming assessments, get homework help, etc. Talk to your advisor on Mondays about which teachers you need to see.
- Advisory is not a time for socializing or wandering the halls. This is academic time and must be used as such.
- Use of electronics will follow the same guidelines that are used during class time.

### Cellphone/Electronic Device Policy:

- Listening to music/headphones is **not** permitted at any time during class UNLESS I give permission.
- Cell phone use is **not** permitted at any time during class UNLESS I give permission.
- **Cell phones may not be used in class as calculators under any circumstances.**
- Cell phones must remain away for the entirety of class unless stated otherwise and may not be kept on desks.
- If necessary, students may use cell phones to record deadlines and additional information at the end of class, but **ONLY when given instruction to do so by the teacher.**
- Cell phones that are taken during class will be given to the office for retrieval at the end of the school day.

### Absences:

- Students are expected to make up any work missed while absent. It will not lose points for being turned in late, but must be completed in a timely manner. Please see the NHS Handbook for additional guidelines.

### Retake Policy:

- Original test and quiz scores of 90% or higher do not qualify for retake.
- Original test and quiz scores below 90% can be retaken to obtain a maximum score of 90%. Any retake score, subject to maximums, will earn up to half of the original points.
- Retakes may be taken for an entire exam or just pieces of an exam.
- You must meet with me to create an action plan to be eligible for a retake. **At the very least, you will be required to complete a revision form, complete test corrections and complete extra practice.** Other requirements could include completing homework, completing study guides, and/or one-on-one tutoring during advisory or after school.
- Corrections must be completed either on a separate page or with a different colored pen or pencil.
- Assignments turned in late may not be revised/retaken.
- All pieces must be completed within **10** school days of the original test being returned, and before the end of a unit.
- No retake is allowed for midterm/final exams/projects.

### Extra Credit Guidelines:

- Bring in a news article related to any earth or physical science topic (even if we haven't discussed it yet).
- Present this article to your class by summarizing the article and discussing why it newsworthy and you will receive up to 5 points of extra credit on an assignment.
- Discussions should not be more than a couple minutes long.
- The article can be from a newspaper (*NY Times*, *Boston Globe*, and *USA Today* frequently have interesting articles), from a scientific journal or magazine (*Science*, *Nature*, *National Geographic*, and *Popular Science* have great information on a variety of topics). **DO NOT USE WIKIPEDIA.**
- These articles will be put up on our "Science in the News" board.
- You may earn up to 5 points on this assignment, and can complete it twice per quarter.

Requirement:	Points Possible:	Points Earned:
Written summary of article included	2 point	
Connection drawn to class content	2 points	
Student Presents Article to the Class	1 points	

- Other extra credit opportunities may be offered as part of class projects, quizzes, or exams.  
*I reserve the right to modify curriculum and expectations as necessary.*