

## SCIENCE

Team 8-3

Mrs. Lisa Frick

Welcome to Team 8-3 Science!

My goal as a science teacher is to create an interactive classroom experience where all students foster a love of the natural world and in doing so will begin to think about their role as a citizen of our planet.

Course Topics:

### SCIENTIFIC INQUIRY

Students will develop scientific habits of mind as they use the processes of scientific inquiry to ask valid questions and to gather and analyze information.

- Safety procedures
- Choosing and using the correct tools and instruments
- Applying appropriate math skills to scientific investigations
- Data gathering and analysis
- Developing predictions, hypotheses, and conclusions based on scientific evidence

### SCIENCE AND TECHNOLOGY

Students will recognize that science and technology are interconnected and that using technology involves assessment of the benefits, risks, and costs.

- Advancement of science and technology throughout history
- Technological design process

### EARTH AND SPACE SCIENCE

Students will demonstrate an understanding of how Earth systems interact resulting in the habitability of the Earth. This includes an understanding of the composition of the universe, the solar system, and the Earth.

- Astronomy
- Earth structure and processes
- Plate Tectonics

#### PHYSICAL SCIENCE

Students will demonstrate an understanding of the composition of physical systems and their interactions and events in the natural world.

- Selected concepts in motion and forces
- Wave principles

#### LIFE SCIENCE

Students will demonstrate an understanding of how living systems function and how they interact with the physical environment. This includes a deeper understanding of the principles of heredity, biological evolution, and the interdependence of life.

- Heredity
- Diversity
- Evolutionary Theory

#### Required Materials

- 1 subject notebook
- Pocket folder
- Index cards, markers, colored pencils, hi-liter, and a ruler
- Calculator

#### Textbook

- Prentice Hall Explorer Individual Unit Series
- On-line and hard copy texts will be used

#### Late Work and Absentee Policies

- Students are given 2 days for each day absent to make up work.
- Late assignments will be deducted varying percentages, (determined by type of assignment), with each day the work was late - some assignments will be given no

credit if not turned in after a certain period of time

- Please inform me of special circumstances that prevent assignments from being turned in on time - parent communication is great here
- Some lab activities will have to be made up at an arranged time after school
- Please inform me as soon as possible if students will be gone for family trips, etc. I will do my best to gather work ahead of time

#### LABORATORY EQUIPMENT

Nagel's science classrooms are equipped with a wide variety of the finest tools and instruments that greatly enhance the knowledge and understanding of required scientific concepts. Students need to handle all equipment with care and respect; misuse of the equipment will result in disciplinary measures. Examples of these could include receiving a reduced number of points for the lab activity or no credit at all, lab cleaning after school, and the student may be asked to replace the piece of equipment if it is no longer usable. Parents will be contacted if any of these measures are necessary.

#### ASSIGNMENTS

Assignments will consist of regular homework both short-term and long-term, lab reports, projects, evaluations, (tests and quizzes), and extra credit.

#### Grading Scale

The grading scale follows that of the District.

93%-100% = A    85%-92% = B    76%-84% = C    70%-75% = D  
Below 70% = F

(Extra credit and good classroom participation and behavior always help those borderline grades!)

#### Communication

- Email [lisa.frick@foresthills.edu](mailto:lisa.frick@foresthills.edu) (preferred method)
- Phone 474-5407

Please do not hesitate to contact me. I can best be reached between 9:10 and 10:00 and at 2:15. A parent may

request a conference at any time during the school year. Weekly homework is generally posted on progress book no later than the second day of the week. Grades are updated regularly, but please remember to allow a reasonable amount of time to correct and post completed assignments. Please check progress book each week in order to help your child succeed in 8th grade science.

I am looking forward to a great year of learning with your children!

Mrs. Lisa Frick