



Physical Science

2022-2023

Mrs. Billman

Email: dbillman@northfork.k12.oh.us

Class Description

This class will be a challenging combination of work and activities to dive into the state of standards as well as real world scenarios to gain a better understanding of the world around us and the impact we can have on it.

There is a lot of learning to do this year, so please come to class ready to get work done!

What will the class look like?

Throughout this year, we will use a variety of resources such as worksheets, projects, group work, tests, quizzes, Kahoot, etc.

The midterm and the final are open to being a traditional style exam or a project that encompasses what we have learned.

Course Sequence

First 9 Weeks (August 18-October 20)	<p>Unit 1:</p> <ul style="list-style-type: none">• Scientific Method• Organizing Data• Metric Units <p>Unit 2:</p> <ul style="list-style-type: none">• Matter Characteristics• Chemical and Physical Changes• Density• Elements and Compounds <p>Unit 3:</p> <ul style="list-style-type: none">• Atomic Structure• Ions and Isotopes• Periodic Table• Groups and Periods• Electron Configuration
Second 9 Weeks (October 25-January 13)	<p>Unit 4:</p> <ul style="list-style-type: none">• Bonding (Ionic and Covalent)• Chemical Formulas• Polyatomic Ions <p>Unit 5:</p> <ul style="list-style-type: none">• Chemical Change• Chemical Reactions• Endothermic and Exothermic• Reactions• Fusion and Fission

Third 9 Weeks (January 19-March 23)	<ul style="list-style-type: none"> • Nuclear Decay Unit 6: <ul style="list-style-type: none"> • 1-D Vectors • Displacement • Motion (Speed, Velocity, and Acceleration) • Interpreting Graphs (Position vs. Time, Velocity vs. Time) Unit 7: <ul style="list-style-type: none"> • Forces (gravity, friction, normal, and tension) • Newton's Law • Free-body Diagram • Field Model • Dynamics
Fourth 9 Weeks (April 4-May 26)	Unit 8: <ul style="list-style-type: none"> • Energy Types • Potential and Kinetic Energy • Energy Transformations • Work • Power Unit 9: <ul style="list-style-type: none"> • Electricity • Ohm's Law • Electromagnetism • Series and Parallel Circuits

Grading Information

A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

You will receive grades in the following areas:

- Participation
- Class Work
- Tests/Quizzes
- Labs

After work is later or missing for more than 1 week, it will become a zero.

Class Expectations

- Come to class with all your materials ready – pencil/pen, paper, charged iPad
- Participate in class
- Take pride in your work and do your best

Make-up and Missed Work

It is your responsibility to make up and missed work not exceeding one day more than the period of absence, i.e. you are absent 2 days – you get 2 days plus an additional day to complete the missed work and get it turned in. You are responsible for asking or emailing me to get your work.

