



## 8th Grade Science

### Course Syllabus 2022-2023

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**Course Description:** Eighth Grade Science focuses on chemistry, physics, sustainable uses of our natural resources, and aspects of the universe.

### Course Content:

#### ❖ Chemistry

- Properties of Matter
- Structure of Matter
- Matter & Energy
- Reactions
- Science as Inquiry (Throughout the Year)

#### ❖ Newtonian Physics

- Force & Motion of Particles and Rigid Bodies
- Energy Storage and Transformations: Conservation Laws
- Heat & Heat Transfer
- Electrical and Magnetic Energy
- Physics in Everyday Phenomena

#### ❖ Humans and the Environment

- Historical Use of Natural Resources
- Sustainable vs. Non-sustainable
- Best Management Practices (BPM) and Their Usage to Combat Environmental Problems

#### ❖ Aspects of the Universe

- The Role of Gravity
- Using Light to Classify Objects in the Universe
- Determining the Age of the Universe

### Grading Breakdown: *(Taken from district guidelines)*

**Performance Assessments = 70%**

(Quizzes/Tests/Projects)

**Formative Assessments = 20%**

(Classwork/Experiments)

**Homework = 10%**

#### **Typical activities will include:**

Quiz (15 points) every 8-10 days.

Test (75-100 points) (1 or 2 per marking period)

Homework (5-10 points) 2-3 per week

Notebook ( 1 or 2 per marking period)

## Grading Scale

A+	97-100
A	93-96
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	65-66
F	0-64

**\*\*Test dates will be announced approximately one week in advance and the date will be posted on the board and on Microsoft Teams. Quizzes may not have as much advanced notice, but they usually cover material covered in the last week. If you are here the day before a test or quiz then you are expected to take the quiz/test the next day unless you make other arrangements with the teacher. Do not wait until the day of the test to ask questions. Find the opportunity to find me to ask questions either after class or during lab.\*\***

## Homework Policy

- ❖ Since many homework assignments are graded on completion, make sure to get it done!
- ❖ Any homework copied from/lent to another will receive Zero credit.
- ❖ If absent, homework is due shortly upon return.
- ❖ Must have homework in class the day it is due to receive credit. *(No credit for late homework that has been reviewed in class)*

## Classroom Procedures and Expectations

- ❖ Students need to arrive to class on time.
- ❖ Instructions for start of class assignments/questions/etc. will be posted on the board at the front of the classroom. Students need to have an answer for discussion when class begins.
- ❖ Please do not ask to go to the bathroom for the first and last 10 minutes of class. (This keeps down hallway traffic)
- ❖ Students are to leave their phones/air pods/headphones etc. in their lockers. If a student is caught using their phone in my class:
  - 1st offense – Verbal warning by classroom teacher
  - 2nd offense – Device is taken by teacher and kept until the end of class
  - 3rd offense – Device is taken by teacher, sent to the office, and kept until the end of the day
- ❖ Please arrive to class in the proper attire
- ❖ Please respect each other and be kind. If you need a moment to cool down, please let me know and I will arrange a place nearby for you to do so. Everyone has bad days!

