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OAK LAWN-HOMETOWN MIDDLE SCHOOL
School District 123



8th Grade Science
Mr. Edie - Room 1013
Mrs. Guerrero - Room 1017

1. District 123 Vision:

A dynamic and supportive environment that ignites lifelong learners who embrace diversity and contribute positively to our community and global society.

2. District 123 Mission:

Preparing today's learner for tomorrow's world

3. Course Description

The purpose of this course is to provide 8th graders with opportunities to explore and examine phenomena.

Are curriculum is delivered in connection with our district's strategic plan which includes a focus on:

- Whole Child Success
- Active Learning
- Operational Excellence
- Community Spirit

4. Learning Outcomes or Big Ideas

By the end of this course, students will be able to demonstrate an understanding of the concepts covered in science through the use of the Science and Engineering Practices and by making curricular connections incorporating the Crosscutting Concepts.

5. Daily Procedures

Each day, students will...

- come to class prepared and ready to learn
- use and maintain a science journal in the classroom
- use the Science and Engineering Practices to make sense of natural phenomena

6. Expectations of Student

Students are expected to...

- follow the Mustang Musts
- always try their best
- be a collaborative worker
- be a self-directed learner
- think critically to solve problems
- be a producer of quality work

7. Expectations of Teacher

Teacher is expected to...

- facilitate lesson
- provide feedback
- authentically assess understanding
- build positive relationships with students

8. Assessment Criteria

Reporting Standards

- Demonstrates understanding of content knowledge and concepts.
- Uses big ideas to make connections across the disciplines of science and engineering.
- Uses science practices to systematically investigate and solve problems

There will be minimal homework in 8th grade science. All graded assignments will be graded using a rubric. Only assessments qualify for re-takes in accordance with our school district grading policy.

9. Materials

- pen/pencil
- 3 ring binder (science journal)
- coloring supplies
- charged Chromebook

10. Instruction and Directions for Help?

If you have any questions regarding this syllabus, please contact us by email at dedie@d123.org and kquerrero@d123.org

11. Curriculum Map (Units of Study)

Objects Move and Collide

- Newton's Third Law of Motion
- Changes in Force and Motion
- Potential Energy
- Kinetic Energy

Non Contact Forces Influenced Phenomena

- Gravitational Forces
- Earth, Sun, Moon System
- Solar System and Galaxies

Waves

- Introduction to Properties of Waves
- Modeling Waves through Various Mediums
- Properties of Visible Light
- Modeling Light Waves
- Digital Versus Analog Signals

Evolution Explains Life's Unity and Diversity

- History of Life on Earth
- Evolutionary Relationships
- Natural Selection
- Artificial Selection
- Genes and Heredity