Physics Instructional Plan: Fall Semester

Course Overview
Welcome to Physics.

Contact Information
Teacher Name: Deanne King
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Classroom Expectations

Be Respectful – Listen. Use kind words. Treat everyone and everything with care.
Be Responsible – Be on time. Bring what you need. Start bellwork immediately.
Follow Directions – Do what's asked the first time. Raise your hand to speak.
Stay Focused – Sit where you're supposed to. Keep your area tidy. Participate.
Stay Positive – Try your best. Learn from mistakes. Keep growing.

Attendance Policy & Its Importance

Attendance Is the First Step to Success
Coming to school every day ensures every student gets the instruction, connections, and support they need to learn, belong, and grow. Missing just a few days can create gaps in learning—but showing up builds confidence, community, and a path toward long-term achievement.

Please notify the school if your child will be absent. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

Learning Objectives
By the end of the first semester, students will be able to:

TEKS

Physics TEKS

Scientific Processes — Minimum 40% Lab Time

- **Conduct safe and ethical field and lab investigations with proper resource use and disposal.**
- **Plan investigations, form hypotheses, and select tools.**
- **Make precise measurements, analyze data quantitatively, and communicate valid conclusions graphically and in writing.**

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- **Interpret relationships symbolically and solve problems using mathematical tools like vector addition and graphical representations.**

Scientific Reasoning & Real-World Connections

- **Evaluate and critique scientific explanations using empirical evidence.**
- **Explore the societal and environmental impacts of physics research.**
- **Research the history of physics and the contributions of key scientists.**
- **Understand the relevance of physics to future careers.**

Motion, Forces & Frames of Reference

- **Interpret motion using real-time graphs and technology.**
- **Analyze uniform and accelerated motion, including projectile and circular motion.**
- **Use free-body diagrams to understand and calculate forces in different reference frames.**

Energy & Momentum Conservation

- **Understand and apply concepts like the work-energy theorem, Kinetic and potential energy transformations, and conservation of energy and momentum.**

Forces & Field Interactions

- **Examine the effects of mass and distance on gravitational forces.**
- **Study electrical and magnetic forces, including designing and analyzing circuits.**
- **Provide real-world examples of electromagnetism in action.**

Thermodynamics

- **Apply the laws of thermodynamics to everyday phenomena.**

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- **Compare heat energy transfer methods and their relation to entropy and disorder.**

Wave Behavior

- **Investigate wave characteristics—velocity, frequency, amplitude, and interactions like reflection, refraction, and interference.**
- **Explore sound and electromagnetic waves and their medicinal and industrial uses.**

Introduction to Modern Physics

- **Learn foundational quantum concepts such as the photoelectric effect and line spectra.**

Course Resources

- Experience Chemistry Student Edition, SAVVAS

Grading Policy

According to Midland ISD Grading Policy:

Student Handbook

School-wide System of Communication

Families can reach out by email, phone, or messages during school hours. We are to hear, to listen, to answer questions, and support you both.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

Please fill out the portion below and return this portion to your teacher.

We acknowledge that we have read and that we understand the expectations in [grade level or course]. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: _____

Student Name: _____

Cell Phone Number: _____

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E-Mail: _____

Parent Signature : _____

Student Signature: _____

Date:_____