

**Physics**  
**Course Syllabus**  
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BS in Physics  
M.Ed., Ed. S. in Leadership  
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Broad Field Science Certified  
Teaching at Westside for 17 years

**Course Description:**

Physics is a study of the basic concepts of science - measurements, motion, force, energy, momentum, light, sound, electricity, and magnetism. Instruction includes theory, calculations, and experiments geared towards giving students a firm foundation for college and career. The course is based on the curriculum guidelines provided by the State of Georgia under the Georgia Standards of Excellence (GSE) for Physics ([www.georgiastandards.org](http://www.georgiastandards.org)). Instruction includes theory, calculations, and experiments geared towards giving students a firm foundation for college.

**Fall (18 weeks)**

The Science and Math of Physics

Kinematics and Mechanics

Energy and Thermodynamics

Structure of Matter

Nuclear Physics and Radioactivity

Gravity and Rotational Motion

Wave Mechanics

Acoustics and Optics

Electrostatics and Electromagnetism

Quantum Mechanics

**Required Materials:**

- One 1-inch 3-ring binder (NO spiral notebooks or folders with brads)
- Loose-leaf paper
- Pencil or blue/black ink pen (a pencil is preferable)
- Textbook
- Scientific calculator (some available for check-out)

\*\*All required materials should be brought to class everyday

Text:

Physics (James S. Walker, Pearson)

**Class Rules:**

Students will follow all school rules and policies as stated in the student handbook and code of conduct book. Also the following rules will be enforced with the consequences listed.

\*Show respect for your classmates and the teacher

\*Remain in your assigned seat

\*Always come to class prepared with required materials

\*Follow all lab safety procedures as discussed in class (failure to do so could not only be harmful to you but also to your grade)

\*No eating or drinking in the classroom

Consequences

Violation 1: verbal warning

Violations 2-5: detention

Violation 6: referral to asst. principal for discipline

*You must be in the classroom when the bell rings, or you will be marked tardy.*

**Evaluation:**

Each six-week grade will be based on 25% for test average, 15% for homework, 25% for labs, 25% for quizzes and class work, and 10% for science current event article summaries.

Homework will be turned in or checked on a regular basis.

Notebooks are very important in this class. Each entry or item in the notebook will be assigned a number. Your notebook will be checked at the end of each marking period. I will show you how to set up your notebook.

Quizzes will be given regularly (1-2 each week). Quizzes will cover the previous day's material or an assigned reading.

Lab grade will be determined from the lab report and from participation in the lab. You must clean up your lab station when you finish your lab. Points will be deducted for not doing so. Each person is responsible for turning in a report unless I tell you to turn it in as a group. No two lab reports should be identical. Due date for each report will be given at the beginning of the lab.

**Make-up Assignments:**

Any time you miss any part of class, you are responsible for getting assignments and notes. You must have a written excuse to be able to make up assignments. You have 2 days after your absence you bring the excuse. You have 5 days from the time you return to make up the work. If you miss a lab, you must schedule a time with me to complete it. If you miss a test, you will be expected to take the test on the day that you return unless you make other arrangements with me. Please check my page on the school website to stay current on all assignments (<http://westside.rcboe.org>)

**My Help:**

If you need any help with any material we cover, please see me. The sooner you make me aware of any problems, the better. I am here to help you. **Do not wait until the day before the test to come and ask me questions.** I am available most every day after school until 3:45, and I will also be at WHS by 7:00 each morning. I strongly encourage you to take advantage of this time.

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Please have this syllabus signed within two days. It is the first entry in your notebook. If you have any questions or concerns, you may contact me at the school (868-4030 or [GrantJo@boe.richmond.k12.ga.us](mailto:GrantJo@boe.richmond.k12.ga.us)). My planning period is from 9:30a – 10:20a each day. I look forward to an exciting year!