Physics

First Semester 2016-17

# Instructor: Mr. R. Webb

# Room: 3204

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# Physics is the study of energy - its transfer, transformation, uses, and interaction with objects. This course will satisfy the physical-science requirement for graduation. History shows most of you will go to college after graduation from high school. This course will give you the background to be successful in later high school courses and in college level science classes.

# You should approach your work here at Wakefield from this perspective: A purpose for what you do here is to build an academic record that will allow you to be accepted by the college of **your choice** and to accumulate knowledge and skills that will allow you to be **successful** at that college.

# I will work with you to help you succeed. Please come to me with questions and/or suggestions. I am usually in room 3204 Tues.-Thurs. afternoons from 2:30 to 3:30. My scheduled SMART lunch tutorial times are: ***Mon. A* and *Wed. B***.

# We will follow the rules and regulations published in your student handbook. You have been in school for many years now and know what you should and should not do. There will be times when I will allow you to use cell phones during class time. At other times the policy found in your handbook will apply. Again, if you have questions and/or suggestions, talk to me!

# Materials you will find useful for this class:

# Scientific calculator – The calculator you use for math will be fine.

#  Three ring binder

# Notebook paper

# A protractor-ruler

 Graph paper

# There is an old saying, “The worst ink lasts longer than the best memory.” With this in mind, a notebook for your own notes will be helpful. You will also find information about this course at the class website, **www.mrwebbscience.weebly.com**. ***Check the site OFTEN!*** Grades are posted on PowerSchools.

# You will have quizzes, tests, vocabulary quizzes, lab reports, problem sets as major grades. I will determine your average by dividing the points you earned on your assignments by the total points you could have earned. This means that categories of assignment will not matter – a point is a point. Your assignments will not have the same number of possible points. More points on an assignment means that assignment is more important and will affect your grade more. Check HOME BASE for grades and your average.

**Evaluation**:

 Several methods will be used to evaluate student performance. The grading system below will be used to determine quarter grades.

**Tests** – 55%

 **Quizzes** – 25%

 **Assignments** **–** 20%

**Communication**:

Student grades will be posted online through PowerSchools, and they will be updated as assignments are graded. A hard copy of interims will be handed out twice during the semester (once every 4.5 weeks). Canvas / Teacher website ([www.mrwebbscience.weebly.com](http://www.mrwebbscience.weebly.com)) will be used to post assignments, note outlines and discussion boards. If you have concerns about grades, assignments or progress, please contact me at rwebb3@wcpss.net. I will respond as soon as possible to all emails. If internet access is not available, please call the front office and leave a message. I will return your call.

**Remind 101**: I will be sending weekly text messages to keep you informed about what is happening in chemistry class and what you should be working on in the evening. If you would like to receive the reminders, dial **(919) 800-0608** and text the following code: **@999hd**

Note: This is not my personal cell phone number. It is a new technology designed for one-way messaging so that teachers can keep parents and students informed outside of class.

**Policies**:

Absences – School policies as listed in your handbook will be followed for absences and tardies. A notebook of make-up work will be kept in the classroom. Assignments and note outlines will also be available on Canvas / Weebly Teacher website. It is the students’ responsibility to find what they missed when absent. **I cannot express to you how important it is for students to be in class EVERY DAY with block scheduling!!!**

Recovery Points – Following the posting of a test grade, only students earning less than 70%, will have an opportunity to either complete an online practice test or attend a SMART lunch remediation session. Completion of the remediation activity will serve as an "entry ticket" to retest on the unit.  Retests will be given 2 SMART lunches after the grades are posted.  Any student who was absent for the original test, and wishing to retest, must complete both the makeup test and the remediation activity before the retest date or they will not have an opportunity to retest.  Students can receive a maximum test score of 70% after the retest.

Labs – Several laboratory experiments and activities will be assigned for each unit. Some will consist of filling out a worksheet, while others will require a complete lab write-up (which will be discussed at a later time). Make-up labs are available online in the event of an absence. Most labs will be available for you to view so that you may complete the appropriate assignment.

Honors Project – This project will be discussed in great detail on a different hand-out.

Final Exam – The exam will count 20% of the students’ final grade. Throughout the course of the semester, we will cover all of the curriculum that will be tested on that exam.

Cell Phones – All cell phones will be handled in accordance to the BYOD rules and procedures.

Dress Code Reminders – No clothing shall be higher than 6 inches above the knee. Straps should be at least 2 finger widths wide. Low cut shirts and sagging pants will not be tolerated. Any student in violation will report to the attendance office to change into scrubs. All dress code policies for the county and school must be followed.

Bathroom – It is important to be in class as much as possible. So please try to use the restroom before or after class. If it is an emergency, please ask the teacher without disrupting the lesson (during a break point in the class). The 15/15 rule will apply where no students will use the bathroom during the first or last 15 minutes of the period.

Late Work–Students will have five school days, following the original due date, to complete and turn in late work.  There will be a deduction of no more than 25% per day, for each day, that each assignment is late.  The percentage of the deduction will be determined by the subject specific professional learning team.  This excludes long term project which have fixed, non-negotiable due dates where late work will not be accepted.

Attendance of minimum of 1 Pride Time or 1/2 of a SMART Lunch must be completed in order for a student to receive credit for a make up assignment from an unexcused absence.

Pride Time- All students will be required to adhere to the school regulations of Pride Time.

**Classroom Rules**:

Discipline should not be a problem in chemistry class. Students are expected to behave in an appropriate manner at all times. The following classroom rules help ensure a productive learning environment.

Be prepared. – This includes bringing necessary materials to class, being

seated and ready to work **when the bell rings**, and being

intellectually prepared to be challenged!

Be respectful. – This includes listening when others are speaking, refraining from

disruptive behavior, and using supplies and equipment safely and

appropriately.

Obey the school rules.

***Wakefield High School Honor Code***

The students of Wakefield High School are committed to being honest and responsible in the completion of academic materials and interactions with the school administration and community. **Cheating, stealing, plagiarism (passing of another’s work, words, or ideas as one’s own), and lying (including willful distortion or misrepresentation) are considered violations of the Honor Code. Through a joint fulfillment of this code, students and faculty will achieve their fullest potential in academic excellence and character.**

We will cover all the topics of the North Carolina Standard Course of Study (SCOS), and we will cover some additional topics as time allows.

Sequence of Topics for Physics

 Weeks to

STANDARD Major Topic Cover Topic

1.1 Linear Motion & Graphs of Motion 3

1.1 Movement with gravity as the 1

 only force – free fall & projectiles

1.2 Newton’s Laws 3

1.3 Linear Momentum & Impulse 1

2.1 Work, power, & energy 2

2.3 Ohm’s law & DC circuits 2

 3.1 & 3.2 Static Electricity & magnetism 2

2.2 Waves – Sound & Light 2