

Welcome to Physics

Syllabus for 1st Semester

Your teacher will be me, Mr. Dale Brabec. This will be an interesting/exciting/thought provoking class, if you understand the following.

Expectations
1. Respect everybody
2. Be prepared for class
3. Be a good listener.
4. Stay on task.
5. Do a little physics everyday

In this class you will be required to follow **all West High School rules** including the tardy policy.

You might be wondering what will be included in this Physics class.

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry. The course includes topics in both classical and modern physics. A knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in the theoretical development of some physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems should be the major goals of the course.

We will be covering the following topics throughout the year.

- Mechanics
- Electromagnetics
- Thermal physics
- Atomic/nuclear/quantum physics
- Optics

You will have to bring certain things to class everyday.

1. Your Physics textbook
2. Your physics notebook which will include
 - a. Your notes
 - b. Your classwork/homework
 - c. Your tests/quizzes
 - d. Your projects
3. Your physics lab
4. Pen, paper, and calculator

Attendance policy:

Daily attendance is necessary for success in this class. It is the responsibility of the student to get notes and work if a class is missed. You are expected to be on time for class. Any work or quizzes missed when tardy will receive a 0.

Late work policy:

Work will be due on the day assigned. Late work will be considered at the option of the instructor. You will be allowed 1 day per excused absence day up to a maximum of 4 days to make up work and tests.

Your grade will be based on weighted categories.

Lab/Demos 25%

You will be performing hands-on labs that will help you understand physics concepts. Normally we will have labs/demos once every week. Sometimes you will be working in a group and other times alone. When working in a group in labs, you will be sharing lab equipment not writing up/ analyzing data together. You will have to maintain a formal lab notebook.

Homework/classwork 25%

Every night you will have homework. Normally this homework will be from your textbook. It is very important to do a little physics homework every night.

Quizzes 25%

You will have a quiz about once a week. These quizzes will be a review of the material recently covered. They will normally be short in length (around 4 questions).

Tests 25%

You will have test about every 3 weeks. Each test will have a multiple-choice part and a free response part.

Grading Scale (this might change)

85 – 100%	A
70 – 84%	B
60 – 69%	C
50 – 60-%	D
less than 50%	F

Please take this syllabus home and have your parents read it. If you or your parents have any questions, please contact me at school.

Dale Brabec

Classroom: 22
Conference Period: 4th (in the science wing)
School phone #: 742 - 2500
Email: Brabec_dale@asdk12.org
Web page: <http://alaskaphysics.com>

I have read and understand the course syllabus and I accept the expectations associated with this class.

(Student Name, printed)

(Student ID)

(Student Signature)

(Parent Signature)

(Date)