

"Good morning, and welcome to  
The Wonders of Physics."

# Accelerated Physics

**Welcome to Mr. Berndt's  
Accelerated Physics Class**

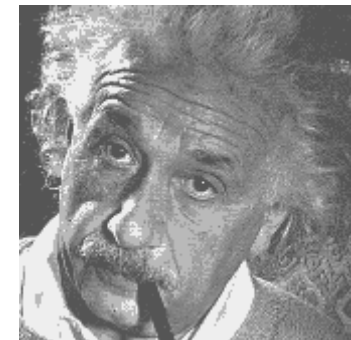
## Goals of this class:

- \* To develop formal, critical and logical problem solving skills while gaining a better understanding of the world.
- \* To relate concepts in physics to everyday life.
- \* Use science process skills.
- \* Describe field concepts.
- \* Utilize deductive and inductive reasoning.
- \* Develop scientific methods from observation and experiments.
- \* Apply math concepts to problem solving.
- \* Utilize dimensional analysis.
- \* Use the computer and graphing calculator to collect, analyze, and interpret data.
- \* Develop advanced laboratory skills



## Topics covered in this class:

Understanding the habits of the Mind  
Motion ( Kinematics )  
Newton's Laws and Forces  
Energy  
Momentum  
Rotation  
Relativity  
Gravity  
Electricity and Magnetism  
Heat and Thermodynamics  
Sound  
Light  
Nuclear  
Atomic



## Grading Policy:

Grading Scale

A = 93% - 100%

B = 85% - 92%

C = 76% - 84%

D = 65% - 75%

Below 65% is failing

Grades will be determined by the number of points that the students receives on tests, quizzes, lab experiments, and other assignments. The semester test will count as 15% of the semester grade.

All assignments are due the day after they are assigned. They will be accepted up until a collection date for full credit, but will be considered late. No credit will be given after the beginning of class on the collection date for any reason.

If the student is absent for any non-school related reason from class, the student will have two days to make up any work per day missed, up to a maximum of six days, but never after the collection date. If a student is to be absent for a school related event the work is due before they go.

Getting missed work is the sole responsibility of the students. Most of the assignments will be available on the

webpage as well as in the classroom. Grades are posted once every two weeks and will also be available to parents on the Internet.

My web page is <http://jb247.k12.sd.us>

Any students found to be cheating or helping others to cheat will receive a zero for that grade. Cheating is defined as copying homework, tests, other assignments or any indication that the student did not do their own work. Both the person who cheated and the person who assisted them will be considered to have cheated.

## Materials Needed:

Notebook / paper

Pencils / pens

Textbook ( provided )

Scientific Calculators are a necessity. You must bring your own. I will not provide calculators ( they do not have to be graphing calculators, but if you are going to purchase one a TI-83 or better is recommended )

A flexible, open mind and a desire to learn.

## Expectations:

### That as a student in this class you will:

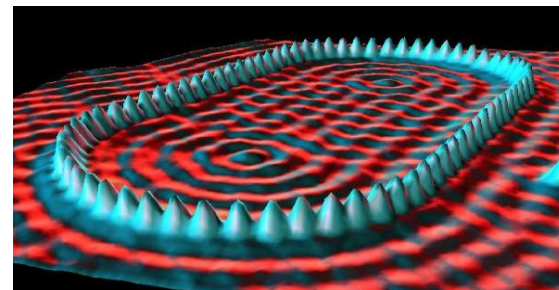
Accept responsibility for your own education

Contribute to the class

Behave responsibly and respect both other members of the class and the property of others including the teacher.

Communicate openly with the teacher.

Complete all assigned work on time.



A fence made of copper atoms around two iron atoms

It is my policy to be as available to students and parents as is possible. As a result you can reach me at Washington High School between 7:00 a.m. and 8:00 a.m. and again after 3:05 p.m. at 367-7970.

I am also available for extra help up as early as 7:00 a.m. before school and again from 3:00 p.m. until 4:30 p.m.

My e-mail address is [jeffrey.berndt@k12.sd.us](mailto:jeffrey.berndt@k12.sd.us)