

## Science 20F

R.D. Parker Collegiate  
2014-2015



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This course focuses on four areas of science and their connection to real world issues. The more you discover about yourself and the world, the more fascinating the world becomes! Your opportunities to make a great impact on society will grow as your understanding and knowledge of the sciences increases.

### Course Overview:

There are four clusters in this course. Each cluster focuses on its own branch of science. Throughout the course, you will gain a glimpse into each branch and begin to understand the connections between the branches.

- i) **Ecology: Dynamics of ecosystems**
- ii) **Chemistry in Action**
- iii) **Physics: In Motion**
- iv) **Weather**

### Goals:

By the end of the semester, students in SCI20F should be able to do the following:

- Perform the following basic math skills for science:
  - o scientific notation
  - o slope
  - o significant figures
  - o manipulation of formulae (basic algebra)
  - o cross multiplication and ratios
  - o estimation
  - o exponents
- Naming chemical compounds (ionic and covalent)
- Write Chemical Formulae
- Balance Chemical formulae
- Understand the relatedness of ecosystems

We are what we  
repeatedly do.  
Excellence,  
therefore,  
is not an act  
but a habit.  
~ Aristotle

## Assessment:

You will never be surprised with any assessments. I will always give you an outline of how you will be assessed and what you will be assessed on. You will need to keep up with your homework, study, and work hard to do well in this course and take advantage of this learning opportunity you have been given.

<b>Term (70%)</b>	
Unit Tests/Assessments	60%
Quizzes	10%
Assignments, Labs, and Projects	20%
<b>Exam (30%)</b>	

## Required Materials

Daily: 3 ring binder (2" or 3"), paper (don't run out!), dividers, pen/pencil

Upon request: graph paper, calculator, scissors, pencil crayons

## Course Expectations

- 1) The Three R's.
  - a. **R**espect yourself
  - b. **R**espect others
  - c. Accept **R**esponsibility for all of your actions
- 2) Research and summarize portions of the course material on your own.
- 3) Attendance is mandatory. In the event of an absence, it is *your responsibility* to obtain notes and assignments from another student and to catch up on any missed work while away.
- 4) Apply study skills early on and throughout this course.

*There is not a sprig of  
grass that is  
uninteresting to me.*  
~ Thomas Jefferson

## **Extra Help**

Students are encouraged to come in for extra help and/or to complete assignments that were not completed in class. Extra help will be available at lunch and after school as required. Please let me know you need extra so we can arrange an appointment.

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*We must use time wisely and  
forever realize that the time is  
always ripe to do right  
~Nelson Mandela*

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*Science is a very exciting subject that helps you learn about yourself and the world around you.  
Take advantage of this opportunity – you only get to live this year once! I look forward to  
learning with you!*

*Mrs. Kornelsen*