



# Dallas High School Home of the Dragons



## Physical Science

Fall 2013-2014

**Instructor:** Tony Olliff, Dave Flugum

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**Office Hours:** Mr. Olliff can be contacted during 7<sup>th</sup> period; Mr. Flugum: Tues-Friday 10:10 to 11:00 and 3:00-3:30, additional times by arrangement.

**Course Description:** Physical Science is a class that will cover a broad range of Sciences. Topics covered first semester include: units of measure and scientific method, states of matter, gas laws and fluid principles, atomic structure, the periodic table, chemical bonds, chemical compounds, and chemical reactions.

**Texts:**

Glencoe Physical Science, Glencoe McGraw-Hill, New York 2002

**Course Outline**

	Unit Topic	Summative Assessment
Unit 1 – Chapter 1	Scientific Method and SI Units	Unit Test – Standard 5
Unit 2 – Chapter 16	Kinetic Theory, States of Matter, Gas Laws and Fluid Principles	Unit Test – Standards 3 & 4
Unit 3 – Chapter 17	Classifying Matter	Unit Test – Standards 2 & 3
Unit 4 – Chapter 18	Atomic Structure and the Periodic Table of Elements	Unit Test – Standards 1 & 2
Unit 5 – Chapter 20	Periodic Table Groups and Periods	Unit Quiz – Standards 1 & 2
Unit 6 – Chapter 19	Chemical Bonds and Naming Compounds	Unit Test – Standards 1, 2, & 3
Unit 7 – Chapter 24	Chemical Reactions	Unit Test - Standards 1, 2, & 3

**Standards to Be Assessed:**

- **Standard 1** Describe how different types and strengths of bonds affect the physical and chemical properties of compounds.
- **Standard 2** Explain how chemical reactions result from the making and breaking of bonds in a process that absorbs or releases energy. Explain how different factors can affect the rate of a chemical reaction.
- **Standard 3** Explain how physical and chemical changes demonstrate the law of conservation of mass.
- **Standard 4** Describe the interactions of energy and matter including the law of conservation of energy.
- **Standard 5 Scientific Inquiry:** Scientific inquiry is the investigation of the natural world by a systematic process that includes proposing a testable question or hypothesis and developing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations and new explorations.

**Career Related Learning Standards:** Career-related learning standards (CRLS) are fundamental skills essential for success in employment, college, family, and community life. We have integrated the Personal Management standard from the CRLS into all courses at DHS. **This standard will be assessed and communicated independent of the academic grade.** It is included below and mainly includes behaviors that will be assessed in this course.

- **Personal Management Standard:** Exhibit appropriate work ethic and behaviors in school, community and workplace.
  - Students will identify tasks that need to be done and initiate action to complete the tasks.
  - Students will plan, organize and complete projects and assigned tasks on time, meeting agreed upon standards of quality.
  - Students will take responsibility for decisions and actions and anticipate consequences of decisions and actions.
  - Students will maintain regular attendance and be on time daily.
  - Students will maintain appropriate interactions with colleagues.

### **Grading and Assessment:**

Student's final grade for each course will be broken down into two categories:

- 1) **Academic:** based on assessments, tests, projects and performances that measure learning.
- 2) **Personal Management:** based on homework completion and other behaviors measuring the CRLS personal management standard.

**The Final grade is calculated as follows: 75%** of the course grade will be based on the **Academic** grade and **25%** on the **Personal Management** grade.

**(Note to parent/guardian: The PM grade is the greatest indicator of the student's daily effort level in my classes. If you attach privileges such as cell phones or video games to grades, this is the one to look at)**

- Any items included in the Academic grade (PA) may be retaken and the higher grade recorded. Teachers may extend the retake time period, but as a rule all retakes need to be done within 2 weeks of the initial assessment.
- Students will complete extra preparation before retaking an assessment.
- Personal management work turned in late may be reduced by up to 50% credit.
- Retakes are not allowed on Personal Management assignments.
- Students must schedule performance retakes at their teacher's convenience. (Speech, drama, labs.)

**Materials needed-** Students who have an organized place to put stuff (Notebook/binder) typically do much better in this class than students who do not.

Also, don't be a chronic borrower. Bring something to write on and something to write with.

If you do not finish our daily classwork, you can check out a book...just bring it back.

**Bathroom Pass -** Request after the first 20 minutes of class, unless there is good reason not to, I'll usually give you a pass.

One last thing: Home access gives parents and students the ability to track and monitor academic progress throughout the High School experience. It is a huge advantage. Sign up in the DHS office.

Here is the website address: <http://dlshomeaccess.spihost.com>

**Parents:** Please keep the rest of the syllabus. By signing this form, you acknowledge that you have read and fully understood the expectations, rules, and standards associated with (Fill in the name of your course here). If you have questions, please call 503-623-8336 or email using the email address provided in this document.

Parent Name: \_\_\_\_\_

Student Name: \_\_\_\_\_

Parent Signature

Student Signature

Which period?\_\_\_\_\_