# SYLLABUS 2016-2017

Physical Science

## INSTRUCTIONAL GOALS

* To make science interesting, meaningful, and engaging for students.
* Utilize different learning modalities and various educational media to teach State Standards.
* Place importance on effort. Provide a well-managed classroom and laboratory.

COURSE OVERVIEW

The Physical Science Standards stress an in depth understanding of the nature and structure of matter and the characteristic of energy. The standards place considerable emphasis on the technological application of Physical Science Principles. Major areas covered by the standards include the organization and use of the periodic table; physical and chemical changes; nuclear reactions; temperature and heat; sound; light; electricity and magnetism; and work, force, and motion.

The Physical Science standards continue to build on skills of systematic investigation with a clear focus on variables and repeated trials. Student will plan and conduct research involving both classroom experimentation and literature reviews from written and electronic resources.

#### NEEDS AND RESOURCES

### **Required Materials**

### To successfully complete this course, you will need:

* **3-Ring Binder; 1 inch**
* **Loose leaf paper**
* **Composition book or 1-Subject Notebook**
* **#2 pencils / colored pencils**
* **Self-contained pencil sharpener**
* **Highlighter (for note-taking)**

##### Textbook

Holt Fusion Physical Science

##### Online Resources

##### class URL - <http://barnettlovesscience.weebly.com>

**Online textbook -** [**http://beep.browardschools.com/ssoPortal/index.html**](http://beep.browardschools.com/ssoPortal/index.html)

### COURSE SCHEDULE (dates TBA)

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| Orientation, Team Building, Classroom safety procedures and expectations, Lab Safety, Lab equipment, Lab skills, Measurements, What is Science?, and Pre-Assessment  Practice of Science, scientific process, steps of scientific method, credibility and validity of scientific claims, Science vs. Pseudoscience, Scientific Models, Development of Theories in Science  Scientific Investigations, Testable hypothesis, Dependent & Independent variables, Importance of repeated trials, Importance of communicating results  Representing Data, Interpretation and analysis of data, Reliability and Validity of Scientific Claims, Evidence from data, Repeated trials, Science and Society, Importance of ethics in scientific research and reporting |
| Introduction to Matter & Properties of Matter,  Physical and Chemical Changes of Matter  States of Matter & Pure Substances and Mixtures |
| The Atom & The Periodic Table  Waves and Properties of Waves, The Electromagnetic Spectrum  Interactions of Light & Transformation of Energy |
| Energy Conversions and Conservation, Temperature, Thermal Energy and Heat  Kinetic and Potential Energy, Motion and Speed, and Acceleration  Forces and Gravity and Motion |

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| Science Activities (6th & 7th Grade Review) |
| **SCIENCE FCAT EXAM** |
| Family Life/Human Sexuality Curriculum BEEP  HIV/AIDS Curriculum BEEP |
| Optional Science Activities |

#### POLICIES AND PROCEDURES

**General Rules:**

Students must be seated in their assigned seat before the tardy bell sounds. Students must bring supplies to class each day. Students must not leave seats without permission from teacher including dismissal. Students are not allowed to eat, drink, sleep, chew, or sell in class. Restroom facilities should be used before or after class – 2 passes per quarter. Students must raise hand to be recognized. LATE = Lockout (without phone call or note). All students must adhere to the Broward County and Lauderhill 6-12 discipline codes.

**Grading Policies:**

All assignments are due on the specified due date only. Generally, late assignments will NOT be accepted. In extenuating circumstances a parent note is required. Make up work for excused absences are accepted according to Broward County guidelines. Make-up test/quizzes must be requested by the first day of return and the make-up will be scheduled before school for the next Tues/Thurs within 2 days. Labs, by their nature, cannot be made up. Alternate written assignment related to lab will be provided and due in 2 days.

**Grading Scale:**

**CONTACT INFORMATION**

**Renee Barnett, 8th Grade Physical Science Regular & Advanced**

**(754) 322-3600 (available before school Tues-Thurs at 8:30am in Room 134)**

**Email:** [**renee.barnett@browardschools.com**](mailto:renee.barnett@browardschools.com)

**class URL:** [**http://barnettlovesscience.weebly.com**](http://barnettlovesscience.weebly.com)

**The grading scale is traditional (90%-100% = A)**

Tests- 30%

Quizzes- 20%

Homework- 5%

Classwork- 25%

Projects- 15%

Class Participation- 5%

***PLEASE RETURN TO MS. BARNETT ROOM 134***

**This page must be returned!**

**Please indicate by circling and initialing on the line provided:**

My student does or does not have reliable access to a computer with internet.\_\_\_

My student does or does not have access to a working printer. \_\_\_

**By signing below I confirm that I have read and understand the Course Syllabus, Classroom Rules, and Policies. *PLEASE WRITE NEATLY!* (worth 5 points)**

Student Name (PRINT) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class Period \_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_

Parent/Guardian Name (PRINT): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_

Parent/Guardian Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_