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Public Schools

Honors Physical Science - Pirie

Honors Physical Science Ms. Pirie

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**Course Description:**

*Grades 9-12 Full Year 1 Credit School-wide Expectations: 1 and 3*

Honors Physical Science approaches the study of matter and energy through observation, investigation, and problem solving. In this full-year course, students are introduced to basic principles of physics and chemistry. Particular focus is placed on the physical properties of matter, energy transformations, chemical structures and properties, and global interdependence. In Honors Physical Science scientific inquiry, literacy and numeracy are emphasized. Students will explore physical properties by compiling, and interpreting evidence in frequent laboratory experiences. They will use mathematical formulas and logic to process and understand data. They will communicate their findings through written and oral presentations. Standards addressed in physical science include an introduction to the scientific method, measurement system, data collection and presentation; energy transformations, energy conservation, electrical energy, global energy and resource use; atoms, molecules, and compounds; simple organic and inorganic chemical reactions; nutrients cycles, etc.

**Textbook:**

*Physical Science with Earth Science*, Glencoe

**Course Objectives:**

1. Introduction to Chemistry

2. Physics and energy

3. Earth science and human impact

4. Space and the creation of the universe

**Required Materials:**

1. Three ringed binder with several paper dividers (used to store ALL papers from class) EVERY PAPER NEEDS TO BE SAVED FOR LATER REFERENCE!

2. One subject notebook or loose leaf paper in the three ringed binder (you will be taking notes)

3. Multiple pencils or pens (to be brought to class DAILY)

4. A calculator is recommended but not required

**Tests and Quizzes**

### Material will come primarily from class discussions, activities, and notes — what we do in class is reflects what you need to learn.

### Test material may come from any activity, including labs, classwork and homework.

### Format of tests is multiple choice, short answer, and “free response” questions that will require you to apply knowledge to a new problem.

**Policies:**

* When homework is assigned, it is due the next time the class meets.
* Students who will arrive late to class will need to present a pass signed by a teacher, administrator, attendance, or guidance
* ***Late work may not be accepted at full credit.***
* ***There will be a 5% reduction in the grade for each school day the work is late.***
* ***Major projects and lab reports that are late will automatically receive a 65%, and additional points will be taken off from there based on the quality of the work***
* Any student missing class due to an absence (excused or unexcused) will be required to make up the work. Missing work is put into an “Absent Box” with your name on it to pick up when you return to class
* A missed assessment will need to be scheduled for a make-up within one week of the quiz
* “Do Nows” will be completed at the start of every class and handed in on a weekly basis. You will receive a grade each quarter for your participation in these bell ringers
* You should be checking Rediker on a weekly basis to keep up with your grades and missing assignments.

**Grading Breakdown:**

* Assessment (quizzes and tests) - 40%
* Classwork (completed in class) - 25%
* Laboratory write-ups and projects - 25%
* Homework - 10%

**Gradebook Codes**

* *ABSENT* = absent (either on the day assigned or the day turned it; the assignment is not counted in the gradebook yet—the assignment still needs to be handed in!!)
* *MISSING* = missing assignment (counted as a zero in the gradebook)
* *X* = excused. You do not have to complete this assignment

