**Syllabus – Physical Science**

Course Title: Physical Science

Teacher Information:

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A102

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Textbook: Glencoe, “Glencoe Physical Science” ISBN 0078901782

Required Materials:

Notebook

Pencil

Pen (Black or Blue)

Calculator

Course Description:

9 Weeks Basic Physics:

Measurement

Motion and Speed

Newton’s Laws

Energy

Work and Machines

Heat

Waves

Electricity

9 Weeks Basic Chemistry:

Phases of Matter

Classification of Matter

Periodic Table

Chemical Bonds

Chemical Reactions

Acids and Bases

Evaluation: Grading Procedure

Daily – 40%

Bell Ringers

Worksheets

Quizzes

Test – 40%

Chapter Tests

Element Tests

Term Exams – 20%

Midterm

Final

Make-Up Policy:

3 Days as per handbook

Student’s responsibility to request work

Student Expectations:

1. On time and prepared
2. Seated and working when bell rings
3. Bell to Bell focus, attention, and work

Projects:

Draw, Color, Label the Periodic Table

Flash cards of the elements

Donations Please**:**

5.00 dollars

or any of the following

Paper Towels

Tissues

Clorox Wipes

Dry Erase markers

Hand Held pencil sharpeners

**Pacing Guide: Term 1**

**Topic/Section Days Objectives**

|  |  |  |
| --- | --- | --- |
| Classroom Rules  Safety | 2 | Identify classroom rules  Identify lab safety rules |
| Measurement | 6 +1 safe day | Name prefixes in the SI system  Identify symbols and units  Convert related units |
| Motion and Speed | 6 + 1 safe day | Distance vs Displacement  Speed vs Velocity  Interpret motion graphs  Calculate Acceleration |
| Forces | 6 + 1 safe day | Explain force, mass, acceleration relationship  Observe 3 types of friction  Describe and give examples of Newton’s first law |
| Energy | 5 + 1 safe day | Kinetic vs Potential Energy  Describe examples of energy conversion  State the law of conservation of energy |
| Work and Machines | 7 + 1 safe day | Explain and calculate work, power, and MA  Describe 6 types of simple machines |
| Thermal Energy | 6 + 1 safe day | Compare and Contrast: thermal energy, heat, and temperature  Calculate change in thermal energy |
| Electricity  Waves | 5 + 1 safe day | Define vocabulary related to electricity  Define vocabulary related to waves |

**Pacing Term 2**

**Topic / Section Days Objectives**

|  |  |  |
| --- | --- | --- |
| Phases of Matter | 6 + 1  Safe day | Explain Kinetic Theory of Matter  Describe particle movement of 4 states  Discuss: Archimedes, Bernoulli, Pascal |
| Classification of Matter | 5 +1  Safe day | Substance vs Mixture  Elements vs Compounds  Physical vs Chemical Property and Change |
| Periodic Table | 10 +1 safe day | Identify names and symbols  Describe electron cloud model  Use the periodic table to obtain information |
| Types of bonds | 10+1 safe day | Ionic vs Covalent Bonds  Polar vs Non-polar covalent bonds |
| Chemical Reactions | 8 +1 safe day | Reactants vs Products  Express chemical changes in equations  Identify 4 general types of reactions  Exergonic vs endergonic reactions  Balance chemical equations |
| Acids and Bases | 5 +1 safe | Acids vs Bases  Determine the meaning of PH |
| Midterm and Final exam reviews | 5 each |  |
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