| First Semester |  |  | Second Semester |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks - 40 days |  |  | $3^{\text {rd }}$ Nine Weeks - 45 days |  |  |
| TEKS <br> P.1A, P.1B, P.2A, P.2B, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.4A, P.4B, P.4C | Scientific process and math review (5 days) <br> Students will review the scientific process and be able to describe how physics relates to the other areas of science. Students will review algebraic methods of solving literal equations and trigonometry. <br> 1 dimensional kinematics (20 days) <br> Students will investigate the relationship between acceleration, velocity and position. Students will derive and use the equations of motion to solve problems. <br> 2 dimensional kinematics (15 days) <br> Students will use the properties of projectile motion to solve problems. Students will use vector addition to find relative velocity. |  | TEKS <br> P.1A, P.1B, P.2A, P.2B, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.6C, P.6D, P.6E, P.7A, P.7B, P.7C, P.7D, P.7E | Cons <br> Stud <br> calcu <br> asso <br> and <br> Ther <br> Expla <br> the f <br> proc <br> Wave <br> Expla <br> the f <br> proc | of momentum (10 days) nvestigate and be able to issing values in problems h conservation of momentum <br> mics (10 days) <br> day examples that illustrate of thermodynamics and the hermal energy transfer. <br> s) <br> day examples that illustrate f thermodynamics and the ermal energy transfer. |
| $2^{\text {nd }}$ Nine Weeks - 43 days |  |  | $4^{\text {th }}$ Nine Weeks - 45 days |  |  |
| TEKS <br> P.1A, P.1B, P.2A, <br> P.2B, P.2C, P.2D, <br> P.2E, P.2F, P.2G, <br> P.2H, P.2I, P.2J, <br> P.3A, P.3B, P.3C, <br> P.3D, P.3E, P.4D, <br> P.5A, P.5B, P.6A, <br> P.6B, P.6C, P.6D | Dyn <br> Stud of $m$ diag miss <br> Univ <br> Stud <br> grav <br> nucl <br> Stud <br> the <br> betw <br> mas <br> cent <br> Wor <br> Stud <br> calcu <br> asso <br> wor | s ( 15 days) <br> will investigate Newton's 3 laws Students will draw free body to find resultant forces or find orces. <br> Gravitation (5 days) <br> will describe the concepts of nal, electromagnetic, weak and strong nuclear forces. will Describe and calculate how tude of the gravitational force wo objects depends on their d the distance between their <br> d Energy (15 days) <br> will investigate and be able to for missing values in problems d with conservation of energy, gy theorem and power. | TEKS <br> P.1A, P.1B, P.2A, P.2B, P.2C, P.2D, P.2E, P.2F, P.2G, P.2H, P.2I, P.2J, P.3A, P.3B, P.3C, P.3D, P.3E, P.5A, P.5C, P.5D, P.5E, P.5F, P.8A, P.8B, P.8C, P.8D | Elect <br> (12 d <br> Descr <br> of the <br> and id <br> electr life. <br> Curre <br> Inves <br> differ <br> used <br> in bot <br> Atom <br> days) <br> Descr <br> dual n <br> the em <br> Calcu <br> the m | magnetic forces and fields <br> alculate how the magnitude force between two objects describe examples of agnetic forces in everyday <br> ricity(16 days) <br> d calculate current, potential ss, resistance, and power c circuit elements connected and parallel combinations. <br> ar and Quantum Physics (7 <br> hotoelectric effect and the light. Compare and explain pectra produced by atoms. describe the applications of gy equivalence. |
| Resources |  |  |  |  |  |
| 1st Nine Weeks |  | 2nd Nine Weeks | 3rd Nine Weeks |  | 4th Nine Weeks |
| Physics (Serway-Faughn) |  | Physics (Serway-Faughn) | Physics (Serway-Faughn) |  | Physics (Serway-Faughn) |

