Physics Syllabus, Excel Academy, 2016-2017, Mr. Earley

Text: Active Physics, Chapters 1, 2, 3 (partial) 4, 5, 6

**CO State Academic Standards addressed**: **HS-PS1**. Newton’s laws of motion and gravitation describe the relationships among forces acting on and between objects, their masses, and changes in their motion – but have limitations. **HS-PS-5** Energy exists in many forms such as mechanical, chemical, electrical, radiant, thermal, and nuclear, that can be quantified and experimentally determined.

Units:

Lab Safety

The nature of Science and Physics

Measurement, Precision and Uncertainty

Motion: Space, time, and Newton’s Laws of Motion

Force, Momentum and Friction

Gravitation, Orbital Motion, and Kepler’s Laws of Planetary Motion.

Energy and Conservation of Energy.

Waves

Electricity and Magnetism

**Grading and Assessment**

Summative Assessments will account for 80% of the grade, daily assignments and Formative assessments 20%

Grade Scale is the Excel Scale, 90-100% A, 80-89.5% B, 70-79.5% C, 60-69.5% D. Scores lower than 60% will not be considered to have earned a passing grade. + and – scores (i.e. B+, C-) will be assigned by the grading program. Current grades, assignment completion, and scores will be available online and posted in the classroom on Thursday afternoons.

Daily assignments and weekly schedules will be posted online.

Course work will consists of a combination of lab activities, online simulations and classroom assignments. Links to web resources will be posted online.

Two Interim tests (week 4, week 7) and a Final assessment will be given, with the Interims each worth 20% of the grade, and the Final 40%

Online tutorials and explanations will be available. It is the student’s responsibility to stay up to date on their work and to make up missing work.

A link to send a message to me is on the school website. Please maintain good communication with your instructor. e-mail: [james\_earley@dpsk12.org](mailto:james_earley@dpsk12.org)