

Physical Science 2

RCAS Policies/Procedures:

Students will be required to follow all RCAS policies and procedures. To view the RCAS High School Student Handbook, click [handbook](#).

Course Description:

Physical Science is designed as an entry level introduction to the subjects of Chemistry and Physics. Critical thinking, scientific formula solving, motion, energy, work, power, electricity, and magnetism are explored.

Textbook:

Glencoe Physical Science

New curriculum will be piloted at times during this class.

Required Resources:

“Limited Choice” Resources: (students will be asked to choose at least one title from this list)

Student Choice:

Will student be asked to choose additional reading material from the classroom or school library?

No

Essential Questions:

How can motion be described and predicted?

How do forces change the motion of an object?

What is the relationship between mass, weight, and gravitation?

How is object's momentum related to its mass and velocity?

How is energy within a closed system transferred between objects and converted

into different forms?

What is the relationship between electricity and magnetism?

Essential Learning Intentions:

Students will be able to describe how inertia affects the motion of an object.

Students will be able to describe how force, mass, and acceleration are related.

Students will be able to identify action/reaction pairs.

Students will be able to describe and predict how energy is transformed within a system.

Students will be able to describe what electricity is.

Students will be able to perform calculations using Ohm's Law.

Students will be able to describe how electricity and magnetism are related