



2024-2025

Rapid City
Alternative Academy

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

Required Resources:

Reading Physical Science 2 will not have regular required readings. There may be content related articles found and implemented. These will be available for student/parent viewing through Canvas or upon parent/student request for a paper copy.

“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:

1. Use mathematical representations to support conceptual claims
2. Construct and revise models to predict conceptual understanding
3. Plan and carry out investigations to provide evidence of conceptual claims
4. Analyze data to support conceptual claims