

Environmental 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:

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will center on natural resources, human impact on the environment and explore various viewpoints and strategies around maintaining a healthy environment.

Textbook:

Environmental Science – Your World, Your Turn (2021)

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:

What are various methods of energy conservation?

How do conventional and alternative energy sources compare?

What are the types of energy-related pollution?

What factors affect the human population?

What is the sustainability of human practices as they relate to water quality, agriculture, forestry, mining, fishing, energy and land use?

What are the causes, environmental effects, and methods for controlling pollution?

What impact does environment play on human health? What are your personal views concerning the environment?

What are the rights and responsibilities of citizens in maintaining a healthy environment?

Essential Learning Intentions:

Student can evaluate methods of energy conservation.

Students can compare energy supply and demand.

Students can evaluate energy efficiency with new technology.

Students can compare and contrast energy sources.

Students can evaluate how energy sources have impacted history.

Students can evaluate how water is impacted by point source and nonpoint source energy sources.

Students can determine the value, efficiency, and duration for sustainable practices.

Students can evaluate the sustainability of practices with regards to water quality, energy and land use.

Students can evaluate current methods for managing pollution.

Students can describe the process of bioaccumulation.

Students can evaluate water as a right versus water as a commodity.

Student can evaluate common practices for pollution control and water usage.

Student can compare prior laws/usage with current laws/usage.

Student can design a sustainable solution to a modern problem.