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| **Environmental Science: 7th Grade Priority Standards** |
| 4.1.7. A Describe the relationships between biotic and abiotic components of an ecosystem |
| 4.1.7. C Explain the flow of energy within an ecosystem |
| 4.5.7. C Explain how human actions affect the health of the environment |
| 4.3.7. A Explain how products are derived from natural resources |
| 4.3.7. B Explain the distribution and management of natural resources |
| 4.1.7. E Identify factors that contribute to change in natural and human-made systems |
| 4.5.7. A Describe how the development of civilization affects the use of natural resources |
| 3.2.7. B Apply process knowledge to make and interpret observations |
| 3.2.7. C Identify and use the elements of scientific inquiry to solve problems |

**Other standards for this course can be found at the following links:**

<http://static.pdesas.org/content/documents/academic_standards_for_environment_and_ecology.pdf>

[www.stateboard.education.pa.gov/documents/regulations%20and%20statements/state%20academic%20standards/scienceandtechnologystandards.pdf](http://www.stateboard.education.pa.gov/documents/regulations%20and%20statements/state%20academic%20standards/scienceandtechnologystandards.pdf)

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| **Earth Science: 8th Grade Priority Standards** |
| 3.1.8.A9 Know that both direct and indirect observations are used by scientists to study the natural world and universe |
| 3.1.5.A9 Use appropriate tools and technologies to gather, analyze, and interpret data and understand that it enhances accuracy and allows scientists to analyze and quantify the results of investigations |
| 3.1.5.A9 Describe relationships using inference and prediction |
| 3.1.5.A9 Understand that scientific investigations may results in new ideas for study, new methods, or procedures for an investigation or new technologies to improve data collection. |
| 3.3.7.A1 Define basic features of the rock cycle |
| 3.3.7.A1 Describe the layers of the Earth |
| 3.3.7.A1 Differentiate among the mechanisms by which heat is transferred through the Earth's system |
| 3.3.7.A5 describe basic elements of meteorology |
| 3.3.7.A5 Explain the relationship between the energy provided by the sun and the temperature differences among water, land, and atmosphere |
| 3.3.8.A5 Explain how the curvature of the earth contributes to climate |
| 3.3.8.A5 compare and contrast water vapor, clouds, and humidity |

**Other standards for this course can be found at the following links:**

<http://static.pdesas.org/content/documents/prek-2_science_and_technology_standards.pdf>