



Alabama State Standards

DIY Watershed

- Kindergarten - Human Impact - Cause and Effect - 11. Identify a problem and design possible solutions that lessen the human impact on the local environment.
- Grade 2 - Physical Features - Cause and Effect - 8. Use models to distinguish between the shapes and kinds of land and water on Earth. Examples: rivers, oceans, mountains, valleys
- Grade 3 - Human Impact - Scale, Proportion, and Quantity - 12. Obtain and communicate information regarding the impact of existing solutions on plant and animal populations when environmental changes occur.
- Grade 4 - Changes Over Time - Scale, Proportion, and Quantity - 12. Plan and carry out investigations to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, and vegetation, investigating a single form of weathering or erosion at a time.

Estuary Survivor Game

- Kindergarten - Human Impact - Cause and Effect - 11. Identify a problem and design possible solutions that lessen the human impact on the local environment.
- Grade 3 - Human Impact - Scale, Proportion, and Quantity - 12. Obtain and communicate information regarding the impact of existing solutions on plant and animal populations when environmental changes occur.
- Grade 6 - Human Impact - Cause and Effect - 11. Obtain, evaluate, and communicate information concerning the relationships between human activities and natural processes and how those relationships affect Earth's systems, including human population growth and its impact on the global environment over time.
- Biology - Biodiversity - Scale, Proportion, and Quantity - Obtain, evaluate, and communicate data to explain how the biodiversity of Alabama contributes to ecosystem services in the state. Examples: Alabama has many species of freshwater fish, which support a robust fishery. Alabama's extensive, diverse forests support the timber industry. a. Obtain and evaluate data to describe human impact on various Alabama ecosystems.

Water Cycle Bracelets

- Kindergarten - Energy Transfer - Cause and Effect - 7. Make observations and describe the effects of sunlight on Earth's surface. Examples: evaporation of water or increased temperature of soil, rocks, and sand caused by direct and indirect sunlight
- Grade 4 - Water - Systems and System Models - 10. Develop and use a model to describe how water moves through Earth's systems by the processes of evaporation, condensation, and precipitation
- Grade 6 - Energy Transfer - Systems and System Models - 8. Construct an evidence-based explanation of how the sun's energy drives the motion and cycling of water through the hydrosphere
- Grade 7 - Matter and Energy Flow - Energy and Matter - 5. Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles.
- Earth and Science (HS) - Weather - Cause and Effect - 7. Obtain, evaluate, and communicate information about the role of energy transfer in wind, precipitation, cloud formation, and front formation. a. Obtain and communicate information to explain how water cycles through the atmosphere, including condensation, evaporation, clouds, types of precipitation, relative humidity, and dew point.