

6th Grade Science

Science Tasks for Upcoming Students



Can you...

- Calculate an average given a set of numbers?
- Measure temperature in Celsius & Fahrenheit accurately using a thermometer?
- Measure inches & centimeters with a ruler and round to the nearest quarter, half, or whole number?
- Read a paragraph, identify the main idea, and summarize the contents?
- Can you decode unknown science vocabulary words using context clues?
- Measure distances & amounts of liquids carefully & exactly?
- Understand a weather forecast?
- Complete a bar or line graph given a set of data?
- Identify the independent and dependent variables in a science experiment?
- Identify the east and west coasts of the United States on a map?
- Identify the oceans that border the United States?
- Locate the Northern and Southern Hemispheres of the Earth?
- Identify major cities (including Knoxville) and landforms in Tennessee?
- Interpret information presented in a graph?
- Understand metric measurements for length, temperature, volume, & mass?
- Log into your grade portal on Aspen & check your class averages and recognize if you have any missing assignments?
- Access your Knox County Google Drive account and create/open documents?

Science Wish List

- White Card Stock
- Post It Notes
- Play Dough
- Seed Packets
- Jolly Ranchers
- Paper Bathroom Cup
- Weather Tools
- Amazon or Walmart Gift Cards



6th Grade Science Units

2020-2021

Interactions in Ecosystems

- Producers, consumers (primary, secondary, tertiary), scavengers, & decomposers
- Energy transfer through food chains, food webs, & energy pyramids
- Levels of the Environment (organism, population, community, ecosystem, biosphere)
- Symbiotic Relationships, competition, predator/prey
- Environmental variables that impact population size
- Identifying Biomes by climate data and patterns of abiotic/biotic factors
- Invasive Species of Tennessee
- Ecosystem change over time (succession, population balance, human interaction, catastrophes)
- Organism communication & survival strategies

Energy

- Gravitational potential energy, elastic potential energy, chemical potential energy, kinetic energy forms
- Relationship between potential and kinetic energy
- Kinetic energy and mass & speed
- Law of Conservation of Energy, energy transformation
- Heat Transfer methods including Conduction, Convection, & Radiation

Earth's Systems

- Ocean currents
- Global & local winds and the Coriolis Effect
- Impacts on climate due to atmospheric flow, geographic features, & ocean currents
- Hydrological cycle & human impacts
- Weather Prediction, weather conditions & severe storms

Earth & Human Activity

- Renewable & Non-renewable resources
- Availability & sustainability of energy resources
- Technologies that utilize renewable & alternate energy sources
- Human activity on the biosphere (pollution, climate change, conservation, habitat management, endangerment, & extinction)

Biodiversity

- Biodiversity changes & ecosystem stability & natural resources
- Biodiversity & human resources