## 7th Grade

**Cells:** Discover the basic structural unit of all living things and analyze how cells work together to function as a system  
**Reproduction & Inheritance:** Describe how inherited traits affect the structure and function of plants and animals  
**Utah’s Geography:** Examine the interrelationship between Utah’s climate, location, landforms, and life; investigate the relationship between physical geography and Utah’s settlement, land use, and economy  
**Agriculture in Utah:** Identify the importance of farming and ranching to Utah’s economy; explain the impact of the Great Depression on farmers and agriculture  
**Natural Resources:** Explore how natural resources sustain and enhance people’s lives; distinguish between renewable and nonrenewable; explain the importance of protecting and preserving Earth’s natural resources  
**College & Career Awareness:** Explore careers, education, and training related to plant and animal systems, natural resources, food and fiber, and STEM concepts  
**Health:** Explain how the United States Department of Agriculture’s Seven Dietary Guidelines and most recent MyPlate can enhance proper nutrition

## 8th Grade

**Natural Resources:** Discuss evidence about the effect of per capita consumption of natural resources on Earth’s systems; emphasize that resources are limited and may be nonrenewable  
**Life Systems:** Discover how living things use energy from their environment to sustain life  
**American Expansion:** Identify significant advances in industrial technology and discoveries of vast natural resources during westward expansion  
**Industrial Revolution:** Explain the economic and geographic impact of the early industrial revolution’s new inventions such as the cotton gin

## High School

**Ecosystems:** Explain how living organisms interact with one another and the environment; research food production in various parts of the world; evaluate the impact of personal choices in relation to the cycling of matter within an ecosystem; research and assess local and global practices that affect ecosystems  
**Earth’s Resources:** Identify the importance of natural and human resources; describe the roles of natural and human resources in daily life; compare and contrast the use of renewable and nonrenewable resources  
**Cells:** Investigate the structure and function of cells and cell parts; experiment with microorganisms and/or plants to investigate growth and reproduction  
**DNA:** Explain how DNA is essential to heredity; discuss genetic technologies that may improve quality of life (e.g., genetic engineering, cloning, or gene splicing)  
**U.S. History:** Discuss the impact agriculture had on the history and culture of the United States  
**Great Depression:** Explain the impact of the Great Depression on the United States  
**World War II:** Explain the impact World War II had on the American home front  
**Economics:** Explain key economic concepts and their implications for the production, exchange, distribution, and consumption of goods and services