

Illinois Goal 12	ESS Presentations	K-2 Product
A. Know and apply concepts that explain how living things function, adapt and change.		
EARLY ELEMENTARY		3-5 Product
12.A.1a Identify and describe the component parts of living things (e.g., birds have feathers; people have bones, blood, hair, skin) and their major functions.	Animals and Plants Growing Plants Body Systems	
12.A.1b Categorize living organisms using a variety of observable features (e.g., size, color, shape, backbone).	Animals and Plants Habitats	
LATE ELEMENTARY		
12.A.2a Describe simple life cycles of plants and animals and the similarities and differences in their offspring.	Growing Up Plant Reproduction	
12.A.2b Categorize features as either inherited or learned (e.g., flower color or eye color is inherited; language is learned).		
B. Know and apply concepts that describe how living things interact with each other and with their environment.		
EARLY ELEMENTARY		
12.B.1a Describe and compare characteristics of living things in relationship to their environments.	Living Things Habitats	
12.B.1b Describe how living things depend on one another for survival.	Living Things Habitats	
LATE ELEMENTARY		
12.B.2a Describe relationships among various organisms in their environments (e.g., predator/prey, parasite/host, food chains and food webs).	Habitats Food Chains Interdependence	
12.B.2b Identify physical features of plants and animals that help them live in different environments (e.g., specialized teeth for eating certain foods, thorns for protection, insulation for cold temperature).	Adaptations	
C. Know and apply concepts that describe properties of matter and energy and the interactions between them.		
EARLY ELEMENTARY		
12.C.1a Identify and compare sources of energy (e.g., batteries, the sun).	Light and Dark Energy Forms	
12.C.1b Compare large-scale physical properties of matter (e.g., size, shape, color, texture, odor).	Marvellous Materials Materials Matter Changing Materials	

LATE ELEMENTARY	
12.C.2a Describe and compare types of energy including light, heat, sound, electrical and mechanical.	Energy Forms Sounds Reflection and Refraction Circuits
12.C.2b Describe and explain the properties of solids, liquids and gases.	Changing State
D. Know and apply concepts that describe force and motion and the principles that explain them.	
EARLY ELEMENTARY	
12.D.1a Identify examples of motion (e.g., moving in a straight line, vibrating, rotating).	Feel the Force Forces Sounds
12.D.1b Identify observable forces in nature (e.g., pushes, pulls, gravity, magnetism).	Mysterious Magnets Feel the Force Springs Magnets Forces Gravity
LATE ELEMENTARY	
12.D.2a Explain constant, variable and periodic motions.	
12.D.2b Demonstrate and explain ways that forces cause actions and reactions (e.g., magnets attracting and repelling; objects falling, rolling and bouncing).	Feel the Force Magnets Springs Forces Gravity
E. Know and apply concepts that describe the features and processes of the Earth and its resources.	
EARLY ELEMENTARY	
12.E.1a Identify components and describe diverse features of the Earth's land, water and atmospheric systems.	Shadows Water Cycle Erosion, Transportation and Deposition
12.E.1b Identify and describe patterns of weather and seasonal change.	Weather
12.E.1c Identify renewable and nonrenewable natural resources.	Pollution
LATE ELEMENTARY	

12.E.2a Identify and explain natural cycles of the Earth's land, water and atmospheric systems (e.g., rock cycle, water cycle, weather patterns).	Weather Predicting the Weather Water Cycle Erosion, Transportation and Deposition
12.E.2b Describe and explain short-term and long-term interactions of the Earth's components (e.g., earthquakes, types of erosion).	Erosion, Transportation and Deposition
12.E.2c Identify and classify recyclable materials.	Pollution
F. Know and apply concepts that explain the composition and structure of the universe and Earth's place in it.	
EARLY ELEMENTARY	
12.F.1a Identify and describe characteristics of the sun, Earth and moon as familiar objects in the solar system.	Our Solar System
12.F.1b Identify daily, seasonal and annual patterns related to the Earth's rotation and revolution.	Shadows Weather
LATE ELEMENTARY	
12.F.2a Identify and explain natural cycles and patterns in the solar system (e.g., order of the planets; moon phases; seasons as related to Earth's tilt, one's latitude, and where Earth is in its yearly orbit around the sun).	Our Solar System Days and Seasons The Moon
12.F.2b Explain the apparent motion of the sun and stars.	Our Solar System Days and Seasons
12.F.2c Identify easily recognizable star patterns (e.g., the Big Dipper, constellations).	Our Solar System