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| --- | --- | --- | --- |
| **Gr** | **Earth Science** | **Life Science** | **Physical Science** |
| K | **Weather*** Types of weather/extremes
* Prep for weather
* Seasons
* Sunlight warms the Earth’s surface
 | **Plants/Animals*** Need to grow and survive
* Can change environment to meet needs
* Habitat has what they need
* External features

**Ecosystems/****Conservation*** Humans affect the world around them
* Can make choices to reduce impact
 | **Forces and Motion*** Push/ Pull (different strengths)
 |
| 1 | **Patterns in Sky*** Sun, Moon, Stars
* Celebrations (seasonal)
 | **Plants/Animals*** Teaching survival behavior to young
* Biomimicry/ Adaptations
* Young look like, but not exactly like, parents
* External features
 | **Light and Sound*** Communication
* Waves/ Vibrations
* Create/ Carry sound and light (blocks)
* Building instruments/ light sources
 |
| 2 | **History of Planet Earth*** Quick changes/ Slow Changes
* Wind/ Water change shape of land
* Land formations
 | **Plants/Animals*** Interdependent Relationships (pollination, food chains)
* Ecosystems/ Habitats
 | **Matter*** Structure and Properties/ Heating and Cooling
* Different properties are suited to different tastes
* Reversible/ Non-reversible
 |
| 3 | **Weather*** Patterns and predictions
* Natural Hazards/ Prep and Survival
* Climate in different regions of the world (typical weather)
 | **Plants and Animals*** Reproduction is essential/ Inherited traits
* Group behavior assists survival
* Animals/ Plants are adapted to specific environments
 | **Forces and Motion*** Objects have force interacting with it (movement or not)
* Force has strength and direction
* Patterns of movement can be observed and predicted
* Electric/ Magnetic forces do not require contact to cause movement
 |
| 4 | **Earth’s Place in the Universe*** Rock formations/ Fossils
* Changes in landscape over time (earthquakes, etc.) due to Earth’s forces
* Weathering/ Role of erosion
* Living things affect physical characteristics of regions
* maps of Earth’s features

**Earth/ Human Activity*** Reduce impact of natural Earth processes on humans
* Energy and fuels derived from natural sources affect to environment, some renewable/ some not
 | **Molecules to Organisms*** Internal/ External structures serve various functions for growth, survival, behavior and reproduction
* Sensory receptors: processing information (Perceptions/ Memories)
 | **Energy*** Transfer of energy through light/ sound/electric currents
* Conservation and transfer of energy
* Relationship between energy forces
* Convert energy from one form to another

**Waves*** Transfer of information
* Amplitude/ Wave length
* Light reflecting makes things visible
 |
| 5 | **Planet Earth*** Place in universe
* Stars range in distance from Earth
* Patterns of daily changes in shadows
* Human Impact/ Protecting Earth’s resources
* Gravitational pull
* Weather and Climate/ Water Systems
 | **Energy*** All energy comes from sun
* Photosynthesis/ Plants need air and water
* Ecosystems: food chain/webs
 | **Matter/ Interactions*** Matter can be divided into
* Particles of matter too small to see
* Weight/ Mass/ Density
* Conservation of matter
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