

SCIENCE 6TH GRADE FOURTH NINE WEEKS

Family Curriculum Guide



We are learning

- Cell theory
- Cell structure
- Prokaryotic, eukaryotic, unicellular, multicellular, autotrophic, heterotrophic organisms
- Biotic factors
- Abiotic factors
- Relationships between organisms
- Hierarchical organization
- Earth systems
- Layers of the Earth
- Types of rocks and rock cycle

Science Conversation Starters

- What is cell theory?
- What are the key differences between the different types of organisms?
- What are the differences between autotrophic and heterotrophic organisms?
- How can you distinguish between biotic and abiotic factors?
- What type of relationships exist between animals?
- What are the key components of each of the Earth systems (biosphere, hydrosphere, atmosphere, geosphere)?
- Draw a model of the different layers of the Earth.
- Draw the rock cycle.

Academic Vocabulary

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|------------------------|---------------------------|-----------------------|---------------------|--------------------|
| • Autotrophic | • Organism | • Mutualism | • Prey | • Sediment |
| • Eukaryotic | • Abiotic factor | • Community | • Hierarchy | • Biosphere |
| • Heterotrophic | • Competition | • Biotic factor | • Atmosphere | • Hydrosphere |
| • Variation | • Organism | • Food | • Geosphere | • Crust |
| • Multicellular | • Temperature range | • Soil | • Watershed | • Oceanic crust |
| • Prokaryotic | • Ecological relationship | • Commensalism | • Lithosphere | • Deposition |
| • Unicellular | • Host | • Parasite/parasitism | • Cementation | • Magma |
| • Cell | • Symbiotic | • Niche | • Igneous rock | • Sedimentary rock |
| • Environmental change | • Species | • Habitat | • Rock cycle | • Ecosystem |
| • Genetic variation | • Biodiversity | • Compete | • Biodiversity | • Surface water |
| • Natural selection | • Ecosystem | • Light | • Groundwater | • Inner core |
| • Cell theory | • Population | • Composition | • Continental crust | • Outer core |
| • Population | • Water | • Predator/Predatory | • Mantle | • Erosion |
| • Stability | • Organism | | • Compaction | • Metamorphic rock |
| • Survival | | | • Lava | • Weathering |