

7th Grade On-Level Science Parent Guide

This course is designed to provide students with the skills necessary to apply science concepts to their everyday life. Along with being able to ask questions and solve problems, students will be able to collect and organize data, and draw conclusions based on their findings. While much of the focus is on organisms and the environment, the course is built on the following strands: scientific investigations and reasoning; matter and energy; force, motion, and energy; earth and space; and organisms and environment. Texas Essential Knowledge and Skills for Grade 7 Science [§112.19. Science, Grade 7, Adopted 2017](#)

1st 6 Weeks:

Introduction to Science and Safety
Photosynthesis
Tropisms & Turgor Pressure
Adaptations and Variations
Dichotomous Keys

4th 6 Weeks:

Cell Theory
Plant and Animal Cells
Organization of Organisms

2nd 6 Weeks:

Biomes
Food Chains, Food Webs, Energy Pyramids
Biodiversity
Succession
Weathering, Erosion, Deposition

5th 6 Weeks:

Human Body Systems
Chemical and Physical Changes in Digestion
Energy and Force

3rd 6 Weeks:

Weathering, Erosion, Deposition
Watersheds & Groundwater
Catastrophic Events

6th 6 Weeks:

Diversity of Organisms and Reproduction
Chromosomes
Heredity
Variations and Adaptions
Solar System and Life
Space Exploration

Questions? Please contact your course science teacher.