



Yearly Overview Grade 7 Adv. Science

2020-2021

Semester 1

Term 1

- Lab Safety
- Dichotomous Keys
- Levels of Organization
- Cell Theory & Microscope
- Cell Structure and Function
 - Plant v. Animal Cell
 - Photosynthesis & Cellular Respiration
 - Tropisms
 - Reproduction
- Diffusion & Turgor Pressure

Term 2

- Heredity & Genetic Material
- Punnett Squares
- Natural Selection
- Selective Breeding
- Biodiversity
- Structural & Behavioral Adaptations
- Flow of Energy - Food Chains, Webs, & Pyramids
- Carbon & Nitrogen Cycles

Semester 2

Term 3

- Human Body Systems – Circulatory, Digestive, Endocrine, Excretory, Integumentary, Muscular, Nervous, Reproductive, Respiratory, Skeletal
- Basic Biomolecules
- Life on Earth
- Accommodations for Manned Space Exploration

Term 4

- Impact of Earth Systems
- Groundwater & Watershed
- W-E-D in Texas Ecoregions
- Impact of Catastrophic Events
- Environmental Changes Impact on Organisms
- Ecological Succession