



Homeschool Course – Senior Level Life & Environmental Science

October 2021 – May 2022

1st and 3rd Tuesday of most months, 2:00–3:00 p.m.

What does it mean to be alive, and what does it take for living things to survive? Life is complicated, messy, extraordinary, and beautiful. Together, we will traverse the hierarchy of life to discover the similarities and difference among living things, and how those characteristics shape the biosphere of our planet.



Oct	Nov	Dec	Jan	Feb	March	April	May
Science and the Nature of Life – Introduction to Life Science	Organization & Structure of Organisms	Heredity & Reproduction		Diversity & Evolution of Organisms			Interdependence
10/5 – <i>What is science? Misconceptions and the scientific process</i>	11/2 – <i>Tiny worlds of life: Single-celled organisms</i>	12/14 – <i>The instruction manual of life: DNA, genes, and chromosomes</i>	1/4 – <i>Building and growing: Reproduction on a cellular level</i>	2/1 – <i>Whatever works sticks around: Adaptation and natural selection</i>	3/1 – <i>Classification: Constantly comparing and connecting</i>	4/5 – <i>Peering into the past: Fossils and homologous structures</i>	5/3 – <i>It is all connected: Ecosystem dynamics</i>
10/19 – <i>The essential fuel for life: What are living things made of?</i>	11/16 – <i>When cells work together: Multicellularity and specialization</i>	Happy Holidays! No Homeschool	1/18 – <i>Everything changes: Genetic mutation and variation</i>	2/6 – <i>Splitting up and specializing: Speciation and phylogenetics</i>	3/15 – <i>Same, same, different: Comparative anatomy & physiology</i>	4/19 – <i>Why are you doing that? Behavior and interaction</i>	5/17 – <i>Where do we fit in? Humans in the ecosystem</i>
	11/30 – <i>We make our own food! Plants cells and photosynthesis</i>						