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|  | **Science 9** **Earth Science Study Guide** |  | **Name:****Date:Block:** |

Create a study guide that includes the major vocabulary and concepts you learn in this unit. Include **definitions**, **examples**, and/or **relevant diagrams**. Your study guide can be a rewriting of your notes, a series of questions/answers, a brochure, a mind map showing the connections between concepts, or any other way you can think of. You can create your study guide on a regular sized piece of paper, a large piece of poster paper, or cue cards

**Earth Science I: Introduction**

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| --- | --- |
| **Vocabulary** | **Concepts** |
| * Biotic
* Abiotic
* Carrying capacity
* Overshoot period
* Degrading carrying capacity
* Atmosphere
* Biosphere
* Lithosphere/Geosphere
* Hydrosphere
 | * Living vs. Non-Living Organisms
* Limiting Factors
* Carrying Capacity
* Earth’s Spheres
 |

**Earth Science II: Solar Energy, Winds, Ocean Currents**

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| **Vocabulary** | **Concepts** |
| * Greenhouse gases
* Trade winds
* Westerlies
* Polar easterlies
 | * Solar Energy
* Coriolis Effect
* Winds
* Convection Currents
* Ocean Currents
* Surface Currents
* Great Ocean Conveyer Belt
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**Earth Science III: Types of Organisms; Food Chains, Webs, and Pyramids**

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| **Vocabulary** | **Concepts** |
| * Organism
* Producer
* Consumer (primary, secondary, tertiary, apex)
* Herbivore
* Carnivore
* Omnivore
* Decomposer/Detrivore
* Trophic level
 | * Food Chain
* Trophic Levels
* Food Web
* Energy Pyramid
 |

**Earth Science IV: Water Cycle & Carbon Cycle**

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| **Vocabulary** | **Concepts** |
| * Evaporation
* Condensation
* Precipitation
* Infiltration
* Ground water
* Run-off
* Transpiration
* Point source pollution
* Non-point source pollution
* Bioaccumulation
* Biomagnification
* Global warming
* Global climate change
 | * Water Cycle
* Human impact on water cycle
* Carbon Cycle
* Human impact on carbon cycle
* Effects of excess carbon
 |

**Earth Science V: Nitrogen Cycle & Phosphorus Cycle**

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| **Vocabulary** | **Concepts** |
| * Nitrogen-fixing bacteria
* Denitrifying bacteria
* Lightning fixation
* Nitrification
* Denitrification
* Weathering
* Geological uplift
 | * Nitrogen Cycle
* Human impact on nitrogen cycle
* Phosphorus Cycle
* Human impact on phosphorus cycle
* Algal bloom
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