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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 |

**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 |