Unit 1: Ecosystems Study Guide

| **Topic** | **Essential Vocabulary** | **Important Details** | **Diagrams & Pictures** |
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| **Matter & Energy** | * matter * energy * Law of Conservation of Matter * 1st & 2nd Laws of Thermodynamics * efficiency |  |  |
| **Biomes** | * ecosystem * biotic * abiotic * biome (and examples) * trophic level * biomass |  |  |
| **Biodiversity** | * ecosystem diversity * species diversity * genetic diversity |  |  |
| **Biogeochemical Cycles** | * biogeochemical cycle * hydrologic cycle * carbon cycle * nitrogen cycle * phosphorus cycle |  |  |
| **Population Equilibrium** | * J-curve growth * s-curve growth * carrying capacity * environmental resistance * critical number |  |  |
| **Evolution of Species** | * artificial selection * natural selection * random processes * fitness * adaptation * migration * extinction |  |  |