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
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| **Biogeochemical Cycles** | * biogeochemical cycle
* hydrologic cycle
* carbon cycle
* nitrogen cycle
* phosphorus cycle
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| **Population Equilibrium** | * J-curve growth
* s-curve growth
* carrying capacity
* environmental resistance
* critical number
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| **Evolution of Species** | * artificial selection
* natural selection
* random processes
* fitness
* adaptation
* migration
* extinction
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