**Artifact Options**

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| **Learning Objective** | **Artifact Options** | **Completed** |
| Describe the characteristics common to all living organisms (1). | * Living/Nonliving lab
* Is Sammy Alive?
* Life notes
* Shared biochemistry
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| Explain how energy flows through an ecosystem (3). | * Food web & energy pyramid notes
* Song bird case study
* Wolf delisting argument
* Energy pyramid modeling lab
* Ecology scavenger hunt
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| Explain relationships between matter cycles and organisms (2). | * Nitrogen cycle game
* Carbon cycle game
* Water cycle game
* Cycles notes
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| Explain how the environment influences a population’s growth (2). | * Human population activity
* Biotic potential of an apple lab
* Population notes
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| Describe how interactions among organisms and their environment help shape ecosystems (3).  | * Ecological relationships guided inquiry
* Predator prey data analysis
* Competition lab
* Symbiosis notes
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| Discuss the significance of invasive species and biodiversity in relation to ecosystem health (1). | * Cane toads video & discussion guide
* Tamarisk article
* Biodiversity & invasive species notes
* Field ecology lab
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