**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 |  |
| 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 |  |
| Explain relationships between matter cycles and organisms (2). | * Nitrogen cycle game * Carbon cycle game * Water cycle game * Cycles notes |  |
| Explain how the environment influences a population’s growth (2). | * Human population activity * Biotic potential of an apple lab * Population notes |  |
| Describe how interactions among organisms and their environment help shape ecosystems (3). | * Ecological relationships guided inquiry * Predator prey data analysis * Competition lab * Symbiosis notes |  |
| 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 |  |