**COMMUNIQUE #8**

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| **Course: Biology Lab** | **Instructor: Robert Vetter** |

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| **Week 29: Vacation: Spring Break** |
| **Week 30: Activities/Concepts: Unit 6, Ecology**  **Energy and Living Things**  **A. Autotrophs/ Heterotrophs/ Decomposers**  **B. Photosynthesis and role of oxygen**  **C. Cellular Respiration and role of oxygen**  **D. Laboratory: Anaerobic Respiration and Photosynthesis**  **Suggested Home Study: Research energy and living things. Read corresponding material in your text book or find online resources that align with the topic at hand.** |
| **Week 31: Activities/Concepts: Unit 6, Ecology**  **Ecosystems**  **A. Biotic/ Abiotic Factors in the environment**  **B. Biodiversity and Habitat**  **C. Stages of ecological succession: primary, secondary, climax community**  **D. Organizational levels: biosphere, ecosystem, community, population, organism**  **E. Energy Flow in Ecosystems/ Food Webs/ Predator-Prey Relationships**  **F. Energy Loss/ Energy Pyramids**  **G. Laboratory: Modeling Predator and Prey Relationships**  **H. Biogeochemical Cycles: Water, Carbon and Nitrogen Cycles**  **Suggested Home Study: Research ecosystems. Read corresponding material in your text book or find online resources that align with the topic at hand.** |
| **Week 32: Activities/Concepts: Unit 6, Ecology**  **Communities**  **A. How Organisms Interact: coevolution, predation, parasitism, symbiosis**  **B. Competition, Niche and Resources**  **C. Effect of climate, elevation and latitude on distribution of biomes.**  **D. Biomes: aquatic and terrestrial**  **E. Laboratory: Surveying the Biodiversity of a Local Community**  **Suggested Home Study: Research ecological communities. Read corresponding material in your text book or find online resources that align with the topic at hand.** |