

Biology Course 3 Proficiency Sheet: Ecology 27% of Milestones Assessment		
www.fsicourses.net assessments	Score	Date Passed
3.1 The Biosphere		
Energy, Producers, & Consumers		
LT 1: I can draw a food chain/web with four trophic levels including labels for the levels and arrows for the direction of energy transfer.		
Trophic Levels & Energy Transfers in Ecosystems		
LT 2: I can develop and use models to analyze the cycling of matter and flow of energy within ecosystems through the processes of photosynthesis and respiration.		
Cycles of Matter		
LT 3: I can explain the need for cycling of major nutrients (C,H,O,N,P) in ecosystems.		
3.2 Ecosystems & Communities		
Climate		
LT 4: I can construct explanations that predict an organism's ability to survive within changing environmental limits (e.g., temperature, pH, drought, fire)		
Niches & Community Interactions		
LT 5: I can plan and carry out investigations and analyze data to support explanations about factors affecting biodiversity and populations in ecosystems.		
Ecological Succession		
LT 6: I can describe the similarities and differences in primary and secondary succession.		
3.3 Populations		
How Populations Grow		
LT 7: I can plan and carry out investigations and analyze data to support explanations about factors affecting biodiversity and populations in ecosystems.		
Limits to Population Growth		
LT 8: I can plan and carry out investigations and analyze data to support explanations about factors affecting biodiversity and populations in ecosystems.		
Human Population Growth		
LT 9: I can predict how human impacts will affect an ecosystem in the short-term and long-term.		
3.4 Humans in the Biosphere		
A Changing the Landscape		
LT 10: I can predict how human impacts will affect an ecosystem in the short-term and long-term.		
Using Resources Wisely		
LT 11: I can design a solution to reduce the impact of human activity on the environment. (Clarification statement: Human activities may include chemical use, natural resources consumption, introduction of non-native species, greenhouse gas production.)		
Biodiversity		
LT 12: I can plan and carry out investigations and analyze data to support explanations about factors affecting biodiversity and populations in ecosystems.		
Meeting Ecological Challenges		
LT 13 : I can construct explanations that predict an organism's ability to survive within changing environmental limits (e.g., temperature, pH, drought, fire)		
Course 3 Assessment: Ecology		
- Energy Transfer		
- Cycling of Nutrients		
- Succession		
- Human Impact		