

Cycles in Ecosystems SWYK

Explain how the **SAME** molecule of water that was in your shower today could have also splashed across the Mayflower as the pilgrims sailed across the ocean so many years ago. Use evaporation, condensation, and precipitation in your explanation.

In a famous experiment it was shown that a mouse in a sealed jar would die, a plant in a sealed jar would die, but a mouse **and** a plant together in a sealed jar would survive. **Explain why.**

Every fourth year, a farmer plants alfalfa or clover in a field instead of wheat. Explain why he does this. (**Hint:** alfalfa and clover are plants associated with nitrogen-fixing bacteria).

Why is a complex food **web** better than a simple food **chain** for the survival of a community? Use specific organisms from either a land biome or aquatic biome in your explanation.