

Abiotic vs Biotic (vsdiff.com)

Abiotic	Feature	Biotic
Non-living components such as water, sunlight, temperature, and minerals.	Definition	Living components including plants, animals, fungi, and microorganisms.
Influences environment and organisms but does not grow or reproduce.	Characteristics	Can grow, reproduce, and interact with other organisms and environment.
Includes physical and chemical factors like soil type, climate, and pH.	Components	Includes species, populations, communities, and ecosystems of living organisms.
Shapes habitats and determines ecosystem structure.	Role in Ecosystem	Responsible for energy flow, nutrient cycling, and ecological interactions.
Cannot perform metabolism or respond to stimuli.	Biological Activity	Actively metabolize, respond to stimuli, and adapt to environmental changes.
Examples: sunlight, temperature, water, minerals, and air.	Examples	Examples: trees, animals, bacteria, fungi, and algae.
Determines the survival and growth of living organisms indirectly.	Impact	Directly affects ecosystem dynamics and interacts with abiotic factors.
Best studied through physical and chemical measurements.	Study Method	Studied via observation, experiments, and ecological surveys.

Source: <https://vsdiff.com/abiotic-vs-biotic/>