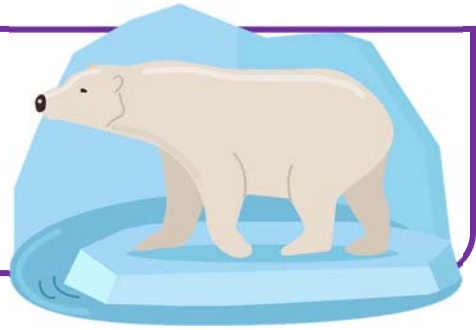


Name _____

Abstract Builder

Directions: Read the technical passage. Write a clear, accurate **scientific abstract** that summarizes the essential information only.



Permafrost is permanently frozen ground found in polar and subpolar regions. As global temperatures rise, large areas of permafrost are beginning to thaw. This thaw activates microorganisms that were previously inactive due to cold conditions. Once active, these organisms break down buried organic matter and release methane and carbon dioxide into the atmosphere. Methane is a greenhouse gas that traps significantly more heat than carbon dioxide over short time periods. Scientists warn that increasing permafrost thaw could create a feedback loop in which warming causes more gas release, leading to even greater warming.

Write a **three to four-sentence scientific abstract** that explains the process, cause, and consequence described in the passage. Do not include opinions or unnecessary details.
