



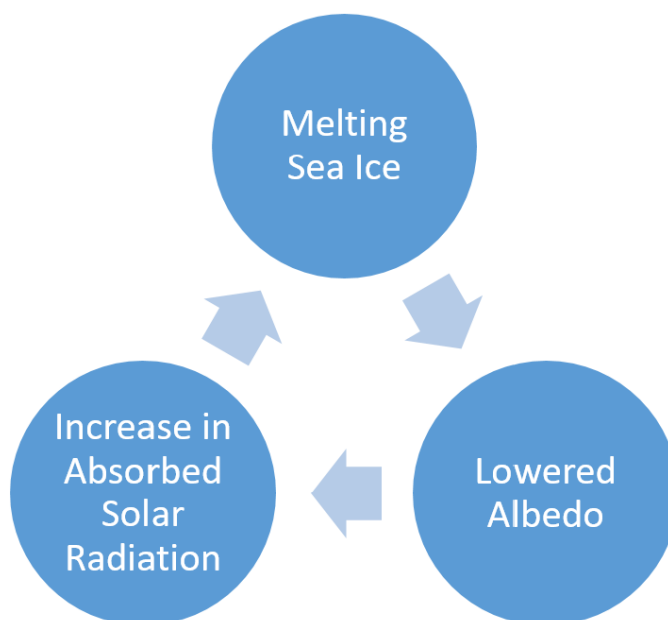
Name: _____

Date: _____

Class: _____

Title: Does Albedo Affect Arctic Populations?
Teacher Sheet

Video Questions



1. Why is the Arctic more sensitive to warming than other regions on Earth? **(Albedo changes when snow and ice melt. This leads to increased energy absorption and more warming.)**
2. Describe the diagram above. What is the relationship between melting sea ice, lowered albedo, and increasing solar radiation? **(When sea ice melts, albedo is lowered. That leads to more energy being absorbed. That leads to more ice melting and lowering the albedo even more.)**

Shrinking Ice Video Questions

1. What role does sea ice play in polar bears' lives? **(Accept reasonable responses.)**





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2. Think of another animal that may be affected by changes in sea ice. How would this animal be affected? **(Accept reasonable responses.)**

Animals Benefiting from Sea Ice Loss Questions

1. How do changes in sea ice extent benefit some animals? **(Accept reasonable responses including that some animals such as the bowhead whale may gain habitat.)**
2. Can you think of another animal that may benefit from changes in sea ice extent? How would this animal benefit from the changes? **(Accept reasonable responses.)**

Exit Ticket

How is albedo linked to changes in habitats for polar bears and bowhead whales? **(Accept reasonable responses. Example: The albedo changes have led to a loss of sea ice which has decreased the polar bear habitat area and increased bowhead whale habitat area.)**