INVESTIGATION QUESTION
How do glaciers reshape landscapes, and what evidence do they leave behind?

HYPOTHESIS

Hint: try writing it as "If _____, then _____, because _____."

MATERIALS

large tray, damp sand, small rocks and pebbles, large ice block

Observation Table

Feature Observed	Description	Real World Glacial Feature This Represents
Rock movement		
Valley formation		
Sediment deposit (moraine)		
Meltwater pattern		

ANALYSIS

What is the difference between glacial erosion and glacial deposition? Find an example of each in your experiment.

CONCLUSION

The Great Lakes were carved by glaciers during the last Ice Age. Based on what you observed in this experiment, explain the process that created them.

CONNECT IT

Research the Milankovitch cycles. What are the three orbital changes that trigger ice ages? How long does each cycle take? Why are they significant?

THINK FURTHER

Sea levels drop dramatically during ice ages as water is locked in glaciers. If sea levels dropped by 120 meters (as they did during the last Ice Age), what parts of the modern world would be above water? How would this affect human migration routes?

ADDITIONAL NOTES