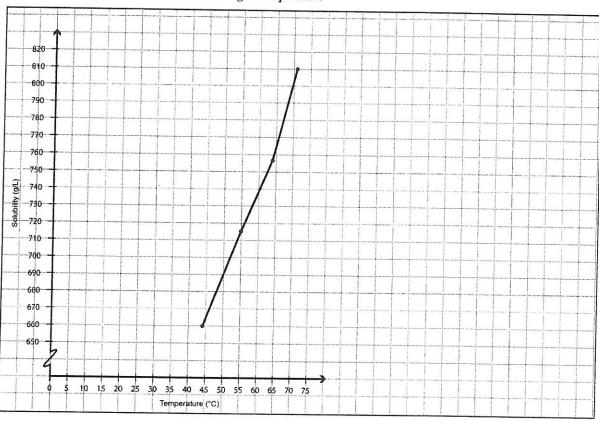
Graph

Plot the solubility of sodium nitrate in water according to temperature. Give the graph a title. *Answers will vary. Example:*

Title: Solubility of sodium nitrate according to temperature



Analyzing the results

1. Describe the graph that you drew.

The graph is an ascending curve.

2. What effect does temperature have on the solubility of sodium nitrate? Explain your answer using your graph.

Since the graph is an ascending curve, it can be concluded that the solubility of sodium nitrate in water

increases according to temperature.

Ν	ame: Date: ANSWER KEY
;	3. What is the solubility of NaNO ₃ at a temperature of 50°C? Answers will vary. Example: 690 g/L
4	1. What are the possible sources of error in this lab? Answers will vary.
5	. How could you improve the protocol for this lab? Answers will vary.
C	ONCLUSION
	Complete the following sentence: As the temperature rises, the solubility of sodium nitrateincreases
2.	Was your hypothesis confirmed or not? Explain your answer. Answers will vary.
AP	PLICATION
dep	pelle makes herself a cup of hot chocolate by completely dissolving a teaspoon of cocoa in some m milk. She leaves for a few minutes and returns to find that her drink is now cold and there is a osit of cocoa at the bottom of the cup. What happened?
Since	e the solubility of cocoa increases as the temperature rises, it can be assumed that the solubility decreases as the
temp	erature drops. Isabelle was able to dissolve a large quantity of cocoa in the warm milk. However, as the will
coole	d, the solubility decreased and the excess dissolved cocoa precipitated and settled at the bottom of her cup.
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