

Name:

Date:

Class:

Claim Evidence Reasoning Worksheet **Answer Key**

Prompt: How does testing various solutions for glucose help us better understand and manage diabetes?

Claim: Write a statement that answers the question.

Possible answer: Testing various solutions for glucose helps us understand how different foods and drinks affect blood sugar levels.

Evidence: Provide data or observations from your glucose testing activity that supports your claim.

Possible answer: In our activity, we found that the glucose test strips turned dark green for the 20% glucose solution and light green for the 10% sugar solution, showing that these solutions have different glucose concentrations. The 20% soda and sports drink also showed moderate glucose levels.

Reasoning: Explain how your evidence supports your claim and why it is important for understanding and managing diabetes.

Possible answer: This evidence shows that different solutions have varying amounts of glucose. By understanding which foods and drinks have higher glucose levels, people with diabetes can make better choices to manage their blood sugar levels. This helps prevent complications and maintain overall health. Additionally, scientists and engineers can use this information to develop better glucose monitoring devices and treatments.