A "life of a Raisin" Date 9/10/14



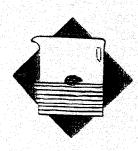




Make some inferences about your observations. Remember that an inference is a tentative explanation. Explain the activities of the raisins in the solution by completing the following statements.

Some of the rais	ins floated because	
	•	
After rising, mos	st of the raisins sank beca	use
After rising, son	ne bubbles attached to the	e raisin popped at the top of the solu
A.C		
Aπer rising, son	ne raisins turned or flipped	d over as they sank because
After a period o	f time, most raisins stoppe	ed rising because
Some raisins di	d not rise because	
	•	
Some raisins bu	imped and furned around	on the bottom of the container beca
	arigaria	on the bottom of the container beca
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buddles are rol	ına (spnerical) in shape b	ecause
Raisins with a le	ot of bubbles rise but raisi	ns with fewer bubbles don't rise bec

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The story below explains the activity of the raisins. However, certain key words or phrases have been omitted. Write the missing word(s) or phrase(s) that will make each sentence correct.

About Force

Raisins float and sink because of two kinds of forces. One kind of force is a lifting force called *buoyancy*. The second kind of force is a sinking force called *gravity*.

When an object is placed in a liquid, the liquid and the object push on each other. In the case of the baking soda and vinegar solution, the heavier vinegar solution pushed the lighter bubbles upward. These rising bubbles created a lifting force. The bubbles accumulated on the raisins. As more and more bubbles accumulated on the raisins, there was a greater _______ force present.

The Rise (about bubbles)

Bubbles were made by a chemical reaction of the two main ingredients in the solu-
tion, and vinegar. The bubbles consist of a gas called carbon diox-
ide. Since the bubbles were lighter than the vinegar solution, they
This action of the bubbles created a buoyant force. Sometimes the bubbles
bumped into raisins and sometimes they
enough bubbles accumulated on a raisin, the lifting force made by the
caused the raisin to rise. As a result, the raisins
floated to the top of the solution.





The Fall

At the surface of the solution, some of the bubbles near the top of the raisins

_______. This happened because the bubbles were no longer surrounded by the _______. Now the floating raisins had fewer bubbles. With fewer bubbles, the raisins had less _______ force. The raisins sank to the bottom of the container because the lifting force was less than the sinking force.



The Flip

Some raisins flipped as they began to sink. This happened because

on only one side of the raisins popped. This caused the lifting and sinking forces to be unbalanced. The side of the raisins that lost the bubbles began to ______. Some raisins did not behave this way. They simply sank straight down, because the bubbles ______ equally on all sides of the raisins.

Some raisins floated to the top and stayed there because there were still enough unpopped bubbles under the raisins.

The End

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Conclusion:

In your own words, explain the activities of the raisins in the baking soda and vinegar solution. Include drawings if you think they will help explain your ideas.

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