

## Activity 4: Keeping Track of Volume in a Closed System

Name	Date	Class

(Questions 1-2) Read the conversation between Tam and Nadia.



I was surprised in Activity 2. I thought the solutions would have more mass after the solid formed.

I was really surprised that the volume of the alcohol and water mixture was less than the volume of the two separate liquids.

I thought the two liquids would combine and take up the same amount of space.



1. What happens to the amount of mass in a closed system after interactions have occurred? (You explored this in Activity 2.)

2. What can happen to volume in a closed system after interactions have occurred?

	bers, Rebecca, Carlos ve at this time to the	•	uan. Write a paragrap	oh with the best answ
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			isagree. We haven't	
	I think we can		of substances that we	But Carlos, we can
	conclude from the		could mix together.	never do all of the
	xperiments that the		ve can't conclude that	mixing experiments
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		no Co	Otis	
//	A		Well I knov	v something
47	4		I can conclu	ude for sure.
X				nfused!
Rebecca	Maybe we should	Carlos		nat scientists
Kebecca	compromise. We could conclude that the	Carios		e to accept
	total mass sometimes		an i	dea?
	stays the same			
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Carlos