			Name:	Date: CP:				
		Conserv	ation of Matter Lab					
Pre-Lab: What does the Law of Conservation of Matter state?								
Predict: Why is it hard to prove the Law of Conservation of Matter when a gas is produced?								
2. 3. 4. 5. 6.	Fill one con Fill a secon Put both Mass of the Seal the p Without on	up halfway with vinegar. and cup halfway with baking soda. cups in a plastic bag. Take care NO he cups, contents of the cups, and to clastic bag. opening the bag, pour the vinegar in sion: e the table below:	the plastic bag. Complete data tab	le provided.				
Ψ.	complete	Initial Mass (g)	Final Mass (g)	Change in Mass (g)				
2.	Describe	what happens when the vinegar wa	as poured into the cup of baking so	da.				
3.	Was the reaction a chemical or physical change? Explain your reasoning.							
4.	The gas produced in this reaction can put out fires. Make an educated guess about the identity of the gas produced? (Use your BYOT to check yourself.)							
5.	Look at the initial mass before the reaction occurred and the final mass after the reaction occurred. Explain how this activity relates to the Law of Conservation of Matter?							
6.	When wood burns, a small amount of ash is left. Why is the mass of the wood before the fire not equal to the mass of the ashes after the reaction?							
7.	How does the Law of Conservation of Matter apply to a burning candle?							
8.	Reactants are the substances that enter into a chemical change. List the reactant(s) in this activity.							

9. Products are substances that are formed as a result of a chemical change. List the product(s) in this activity.

{	grams of N _{2,} how much Na is pro						
		Name:		Date:	CP: _		
		Conservation of	Matter Lab				
re-Lab:	What does the Law of Conserva	tion of Matter state? _					
redict:	Why is it hard to prove the Law	of Conservation of Mat	ter when a gas is produce	ed?			
irectio	ns:						
	ll one cup halfway with vinegar.						
	l a second cup halfway with baking soda.						
	ut both cups in a plastic bag. Take care NOT to spill the contents of either cup.						
	etermine the mass of the cups, contents of the cups, and the plastic bag. Complete data table provided.						
	Without opening the bag, pour t	he vinegar into the cur	of haking soda Ohserve	and complete data ta	ıhle		
	Develop another way to test cor						
	data table.	iservation of matter w	ich ene ma benzen, bane	ons, and maski comp			
	d Conclusion:						
1.	Complete the table below:	1 ::: 184 /)	F: 104 ()	GI : N			
10	est 1. Vinegar and Baking Soda	Initial Mass (g)	Final Mass (g)	Change in M	iass (g)		
	Alka-Seltzer and Balloon						
2.	Describe what happens when	⊔ n the vinegar was pour	ed into the cup of baking	soda.			
3.	Was the reaction a chemical	or physical change? Ex	plain your reasoning.				
			. ,				
4.	The gas produced in this read	ction can put out fires.	On the line provided pred	dict the identity of the	e gas		
	produced?	•	•	•	Ü		
		,	·	•			
5.	Look at the initial mass before			the reaction occurre	d. Explai		
	how this activity relates to the	ne Law of Conservation	of Matter?				
6.	On the back of this paper, dr	aw a bar graph showin	g the initial and final mas	s of test 1 and 2?			
	1 1 /	5 .	o .				
7.	Which test, 1 or 2, worked be	est to prove the Law of	Conservation of Matter?	Whv?			
		p					
8.	When wood burns, a small a	mount of ash is left \M	/hy is the mass of the wor	nd hefore the fire not	egual to		
O.	the mass of the ashes after t		my is the mass of the woo	od before the me not	equal to		
9.	How does the Law of Conser	vation of Matter apply	to a burning candle?				
10.	Reactants are the substances	s that enter into a cher	nical change. List the rea	ctant(s) in this activity	/.		
11.	Products are substances that	are formed as a result	of a chemical change. Li	ist the product(s) in th	is activit		

12.	In the following reaction: 2NaN3 decomposes to form 2Na + 3N2. If 500 grams of NaN3 decompose to form 323.20 grams of N2, how much Na is produced? (When answering, remember the Law of Conservation of Matter.					