	Name:
	Group Members:
	Date:
	odels Matter
Beginning Thoughts	
What is matter?	
Are water and sugar matter? Why or why n	0+2
Are water and sugar matter? Why or why n	ot:
Jnderstanding Water and Sugar	
	ou may not use the word liquid). Feel free to pour the
•	the observations that would hold true for all liquids.
1.	
2	
5	
	e (you may not use the word solid). Then circle the
observations that would hold true for all	
1.	
1	

When you pour the water between the beakers do you pour the same amount each time? What do you think is the smallest amount of water that could be moved from one beaker to			
the other?			
If you smashed the sugar cube would all the pieces be the same size? What do you think is the smallest piece that could be removed from a sugar cube?			

Generate models that can explain the observations that you made about liquids and solids using your choice of words, pictures, and/or numbers.

Liquid Solid

Solid

<sup>\*</sup>When you are finished combine your ideas with your group and put your combined model on a poster.

Petri Dish	shown in the picture). Then place on the hot plate and
	gently heat (95°C). If the water starts to boil then turn
'	down the hot plate. Record 3 observations about the
Beaker	beaker with the water .
	1
Water	2
3.	
Record 3 observations about	the beaker with the sugar cube the teacher is heating at the
front on the room.	
1	
3	
Where did the water on the p	petri dish come from and how did it get there? What happened
to the amount of water in the	e beaker?

Place a Petri dish face down on the beaker with water (as

Liquid	J Solid
words, pictures, and/or numbers.	
Revise your models of liquids and solids to inc	orporate your new findings using your choice of

*When you are finished combine your ideas with yo	ur group and put your cambined model on a poster
*When you are finished combine your ideas with you feave a beaker with water and another be week, the water beaker will be empty and the s	eaker with a sugar cube on the counter for one
our model to explain this.	The same are a second and a second a second and a second

Generate a model of what you think will happen if you put the sugar cube into the water using your choice of words pictures, and/or numbers.			
*When you are finished combine your ideas with your group and put your combined model on a poster.			
What evidence could you collect to support your model?			

How do you know that sugar is in the water?		
What does this tell you about the re	elative size of sugar particles?	
Match the following number to the	correct description	
Match the following number to the	correct description	
7,000,000,000	Approximate mass of sugar that you used (g)	
4	Approximate mass of water that you used (g)	
20	Approximate number of people on earth	
10,000,000,000,000,000,000	Approximate number of sugar particles in a sugar cube	

Draw a model of what will happen when sugar/water is heated with a lid over it using your choice of words, pictures, and/or numbers.

<sup>\*</sup>When you are finished combine your ideas with your group and put your combined model on a poster.

What evidence could you collect to support your model?				

Test your model and revise your model if necessary

As a group, generate a general model of solids, liquids, and gases using your choice of words, pictures, and/or numbers. Record your model on a poster.