Title:	Finding Solutions	Name
-	ose: To test 3 different variables that rela	te to the speed which a solute
Mater	rials: Erlenmeyer flasks, balance, sodiur	n thiosulfate, other labware
Contr 1. 2. 3.	edures: rol Procedure: Weigh out a 1.0 g portion of sodium thic Prepare an Erlenmeyer flasks with 100 a Allow it to dissolve without touching it ag With your group, decide on three variab dissolving. Write your procedures below thiosulfate in 100 mL of water.	mL of water. gain. Time how long it takes. les that may affect the speed of
Proce	dure #1	
1.		
2.		
3.		
Proce	dure #2	
1.		
2.		
3.		
Proce	dure #3	
1.		
2.		
3.		

Show your teacher your procedures before beginning. Fill in the top of the data table with a brief summary of the variable being tested. Be ready to report to your class with a summary of your results.

Data

	Control: Add 1.0 g then do NOT swirl.	#1	#2	#3
Time to dissolve completely				
Sketch at particle level.				

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7	1/1/hat ic	tha calliant	ın	thaca	experiments?
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- 2. What is the solute in these experiments?
- 3. Which procedure produced the fastest dissolving time? Why?
- 4. Which was slowest? Why?

Based on the data from class:

- 5. How did swirling the flask (agitation) affect the motion of the particles?
- 6. What effect did this have on the time to dissolve?
- 7. How did heating the water effect the motion of the particles?
- 8. How did that effect the time to dissolve?

9. How did pulverizing the particles affect the time to dissolve?
10. Why did it have that affect?
11. If you were part of an industry that needed to quickly dissolve a substance like sodium thiosulfate, which process would you recommend? Consider the most practical and energy efficient process that saves the most time.
Conclusion: