Name:		Solutions
I. The effect of circulation	DATA SHEET	
II. The effect of the size of the pa	rticle	
III. The effect of temperature		
IV. The effect of the polarity of a s A. lodine	solvent	
B. Vegetable oil		
C. Water/hexane		
D. lodine/hexane		
V. Instructor Demo A. Water/CuSO ₄		
B. Ba(OH) ₂ /NH ₄ Cl		

Name:	Solutions		
REVIEW QUESTIONS 1. What solubility effects influence the speed of dissolving a second secon	substance?		
2. What are the parts of a solution? Which part is present in	the highest molar quantity?		
3. Why do solids dissolve in liquids? Describe.			
4. What is an alloy?			
5. Describe the atmosphere as a solution.			
6. Why are molecules polar?			
7. What chemical in this experiment can stain your fingers an	d turn your skin yellow?		
8. Is hexane a polar or non-polar molecule? Why?			

9. You have dissolved several colorful materials in water and hexane. Describe how you

10. What is the surface area of a cube that is four meters on an edge? How many cubes one meter on an edge fit into this large cube? What would be the total surface area for all of these cubes? Is this more than the original value for the large cube? What can

would determine which is more dense - water or hexane.

you say about particle size and surface area now?