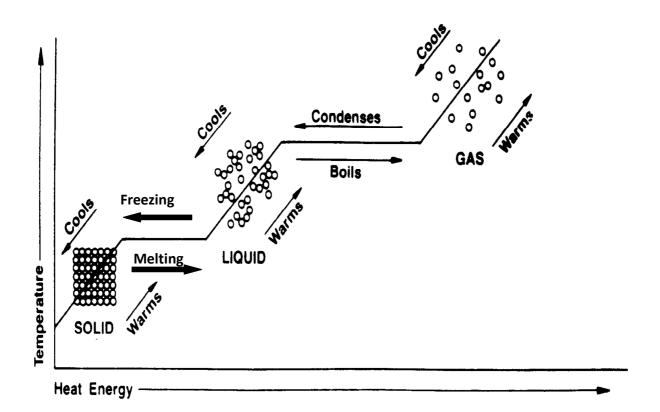
Phases of Matter

What is a Physical Property?_	 		

List 5 Physical Properties.

Phase	Arrangement of Particles	Movement of Particles	Definite Shape?	Definite Volume?	Compressible?

Phase Changes



- 1. Does temperature increase during melting?_____
- 2. Is energy required for each phase change?_____
- 3. Can both liquid water and water vapor/steam exist?_____
- 4. What must be changed, temperature or thermal/heat energy?_____
- 5. How do you describe the change in the arrangement of particles as thermal energy and temperature increase?
- 6. What rule could you say about the relationship between phase changes and temperature? between phase changes and thermal/heat energy? ______

<u>Key Concept:</u> Energy is responsible for the different phases of matter. To change the phase of a substance energy can be added or transferred away.

*Compare & Contrast the terms in each pair. One similarity for both and 1 difference for ea	ıch
term	

1.	Melting Point	VS.	reezing Point
2.	Evaporation	vs. V	aporization
3.	Evaporation	vs. B	oiling
4.	Vaporization	vs. S	ublimation
_		_	
5.	Melting Point	VS. B	oiling Point_
6	Freezing	VC I	Condensation
0.	rreezing	VS.	<u>condensation</u>
	Review Questions: (Classify	#13-#18 as a Physical or Che	mical Change)
7.	Review Questions: (Classify Do molecules move fastest in		
7. 8.	Do molecules move fastest in	a solid, liquid, gas?	
8.	Do molecules move fastest in Do molecules move slowest i	n a solid, liquid, gas?n n a solid, liquid, gas?	
8. 9.	Do molecules move fastest in Do molecules move slowest i In which phase do molecules	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy?	
8. 9. 10.	Do molecules move fastest in Do molecules move slowest i	n a solid, liquid, gas?n a solid, liquid, gas? have the most energy? have the least energy?	
8. 9. 10. 11.	Do molecules move fastest in Do molecules move slowest i In which phase do molecules In which phase do molecules	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid?	
8. 9. 10. 11.	Do molecules move fastest in Do molecules move slowest i In which phase do molecules In which phase do molecules What phase is produced if en	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid?	
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8. 9. 10. 11. 12. 13. 14. 15.	Do molecules move fastest in Do molecules move slowest in In which phase do molecules In which phase do molecules What phase is produced if en What phase is produced if en A match burnsAn ice cube meltsFood coloring is added to a care	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid? exposed to air for several we	
8. 9. 10. 11. 12. 13. 14. 15. 16.	Do molecules move fastest in Do molecules move slowest in In which phase do molecules In which phase do molecules What phase is produced if en What phase is produced if en A match burnsAn ice cube melts Food coloring is added to a car A silver fork tarnishes when e	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid? eake to make it red exposed to air for several we	
8. 9. 10. 11. 12. 13. 14. 15. 16.	Do molecules move fastest in Do molecules move slowest in In which phase do molecules In which phase do molecules What phase is produced if en What phase is produced if en A match burnsAn ice cube meltsFood coloring is added to a car A silver fork tarnishes when en Leaves of trees turn bright results.	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid? eake to make it red exposed to air for several we	eks
8. 9. 10. 11. 12. 13. 14. 15. 16.	Do molecules move fastest in Do molecules move slowest in In which phase do molecules In which phase do molecules What phase is produced if en What phase is produced if en A match burns	n a solid, liquid, gas? n a solid, liquid, gas? have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid? exposed to air for several we d in Fall	eks
8. 9. 10. 11. 12. 13. 14. 15. 16.	Do molecules move fastest in Do molecules move slowest in In which phase do molecules In which phase do molecules What phase is produced if en What phase is produced if en A match burns	ha a solid, liquid, gas?n a solid, liquid, gas?have the most energy? have the least energy? ergy is added to a liquid? ergy is added to a solid? ake to make it red exposed to air for several we d in Fall es	eks

<u>Example</u>	Physical Change that could	Chemical Change that	
	happen	could happen	
Raw egg			
Pencil			
Green Plant			
Bicycle Frame			