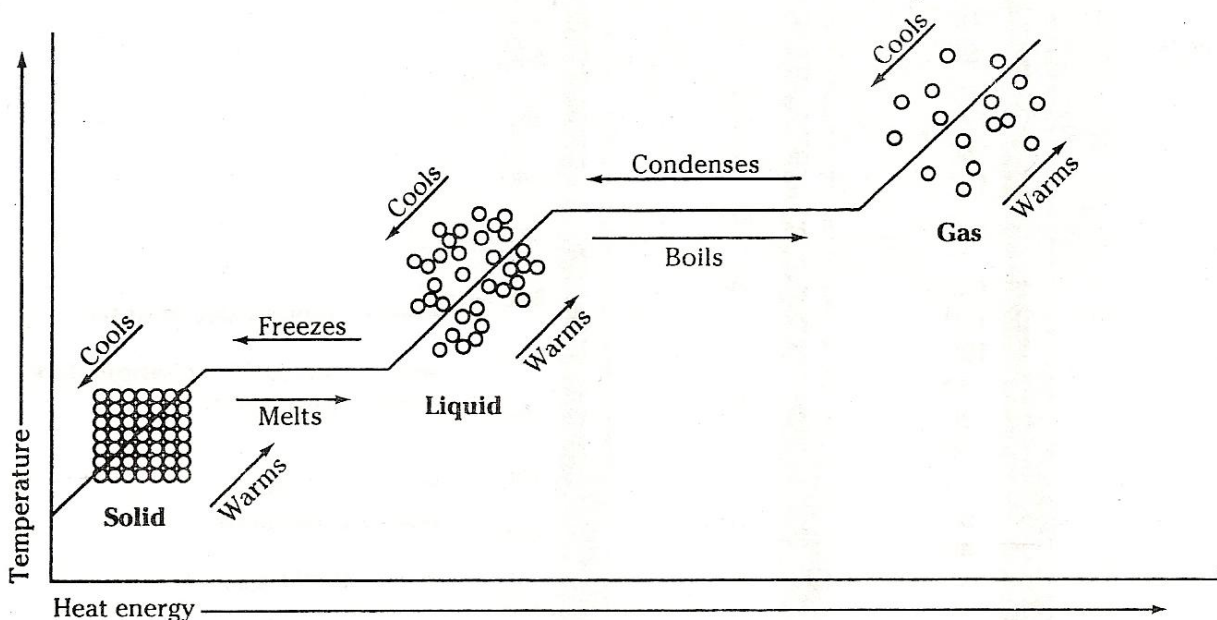


## Observing Phase Changes

The accompanying graph shows the relationship between temperature and heat energy during the phase changes of water. Study the graph and answer the following questions.



1. Does the temperature increase during melting? \_\_\_\_\_  
\_\_\_\_\_
2. Is energy required for each phase change? \_\_\_\_\_
3. Can both liquid water and steam exist at 100°C? \_\_\_\_\_
4. What must be changed—temperature or heat energy—during condensation? \_\_\_\_\_
5. How would you describe the change in the arrangement of particles as heat energy and temperature increase? \_\_\_\_\_  
\_\_\_\_\_
6. What rule can you state about the relationship between phase changes and temperature? Between changes and heat energy? \_\_\_\_\_  
\_\_\_\_\_