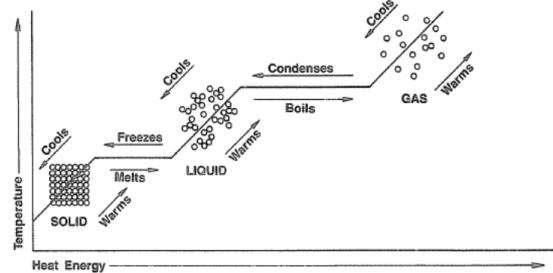


## Phase Changes

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



Oct 14-1:23 PM

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 phase changes and heat energy? \_\_\_\_\_

Oct 14-1:23 PM

### Changes of State (phase)

Change of state	Direction	Endothermic or exothermic?
Melting		
Freezing		
Evaporation		
Boiling		
Condensation		
Sublimation		

### Exothermic—

### Endothermic

Oct 7-1:54 PM