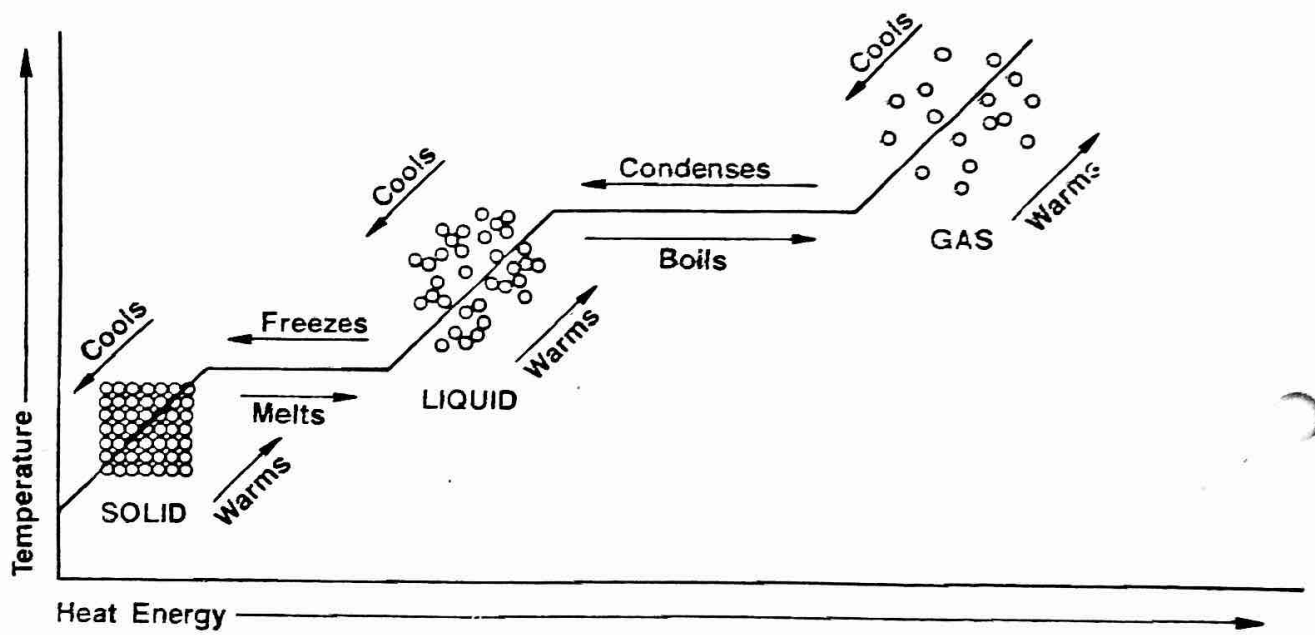


Phase Changes

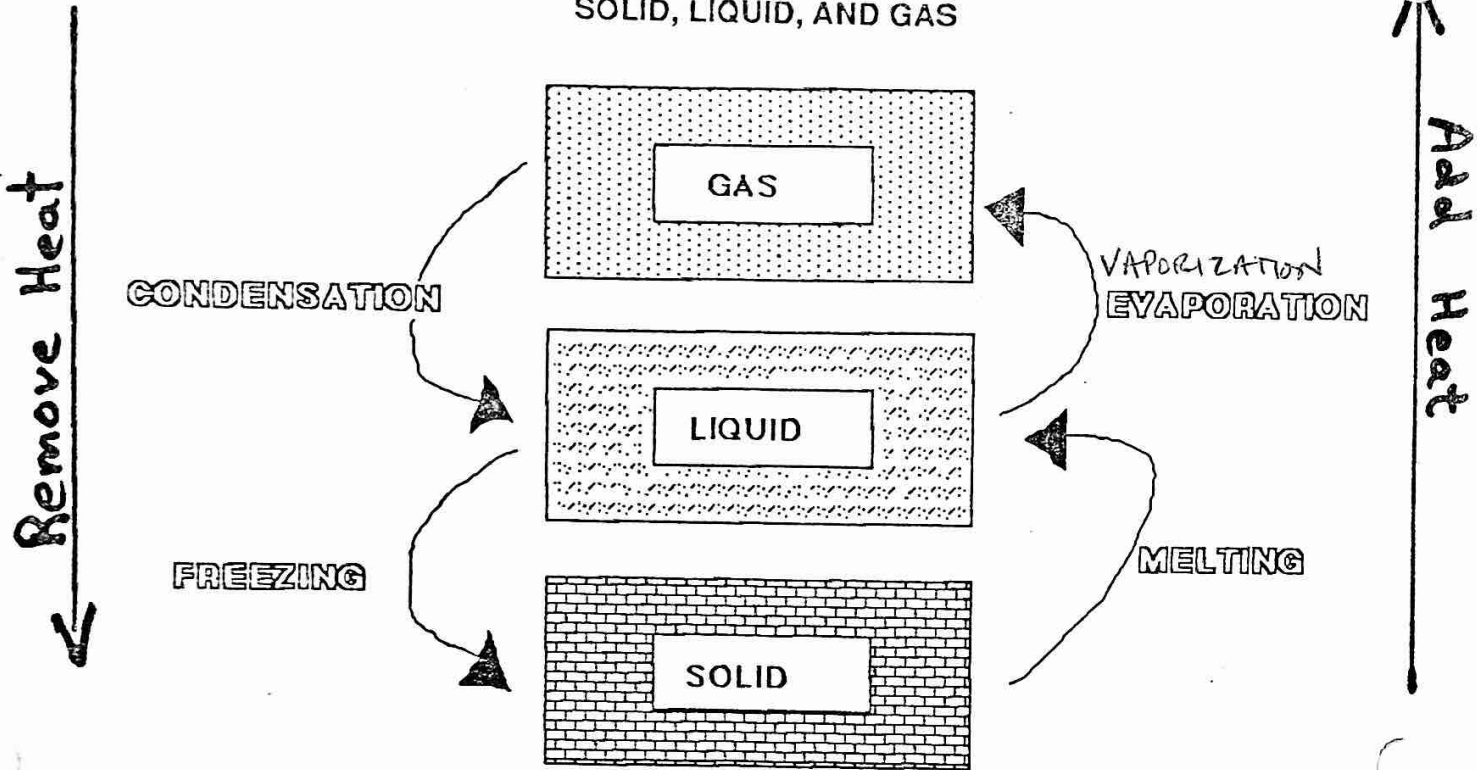
The accompanying graph shows the relationship between temperature and heat energy during the phase changes of water. Study the graph and answer the questions.



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? _____

Name _____

LESSON
Matter and Its States
SOLID, LIQUID, AND GAS



Directions: Use the above chart to help you answer the following questions.

Part I: Fill in.

1. Changing from a liquid to a solid is called _____.
2. Changing from a liquid to a gas is called _____.
3. Changing from a gas to a liquid is called _____.
4. Changing from a solid to a liquid is called _____.

Part II: Circle the best answer.

5. To change from a solid to a liquid (requires heat or gives off heat).
6. To change from a gas to a liquid (requires heat or gives off heat).
7. To change from a liquid to a solid (requires heat or gives off heat).
8. To change from a liquid to a gas (requires heat or gives off heat).