

Particle Theory and the Classification of Matter

Use p 138 - 143 in your textbook to answer

Chemistry: a branch of science which studies the structure and properties of matter.

Matter: anything that _____ and _____.
The particle theory is a scientific model that explains matter.

Mass: _____

Volume: _____

M: _____

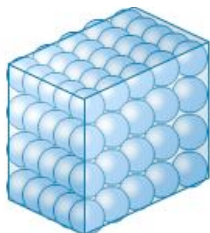
Stages of matter

- Matter can be found in three states _____

Use the information from fig 4.5 to fill in the following chart:

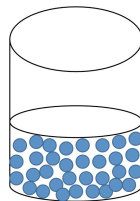
SOLID

- Force:
- Arrangement of particles:



LIQUID

- Force:
- Arrangement of particles:

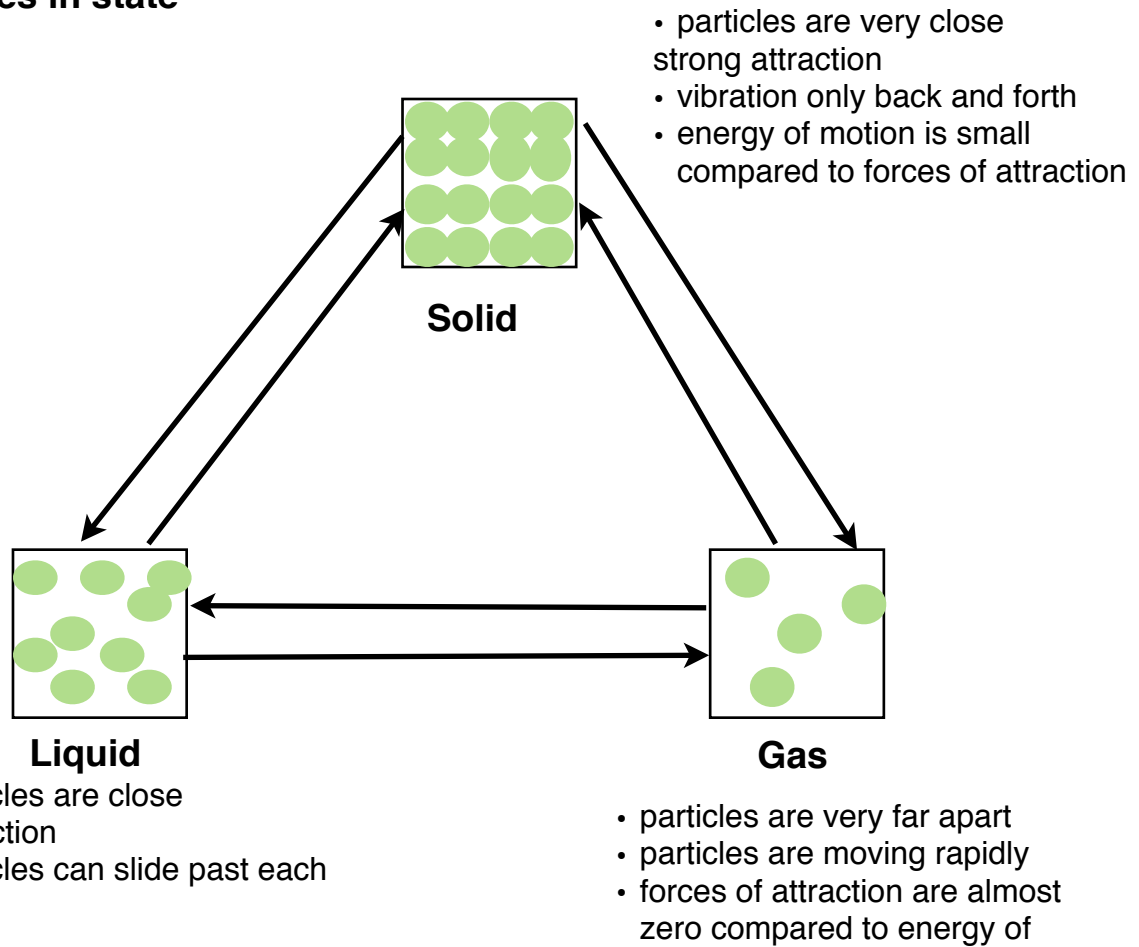


GAS

- Force:
- Arrangement of particles:



Changes in state



Initial State	Final State	Change of State	Energy Added or Released?**
Solid	Liquid		
Solid	Gas		
Liquid	Gas		
Liquid	Solid		
Gas	Solid		
Gas	Liquid		

** To answer this question look at Fig 4.4. If the arrow is RED energy is added is the arrow is BLUE then energy is released.

The Particle Theory

The four main points of particle theory are:

1): _____

2): _____

3): _____

4): _____

How does heat change the state of matter? _____

Classifying Matter

Pure Substances: _____

Element: _____

Example _____

Compound: _____

Example _____

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Mixtures: _____

Mechanical Mixture: _____

Example _____

Suspension: _____

Example _____

Solution: _____

Example _____

Homogenous Mixture: _____

Heterogenous Mixture: _____

Copy Fig 4.12 in this space

Answer the following questions on a separate piece of paper.

pp 140 #1-5

pp 143 # 1-4