

Name: _____

Date: _____

Chapter 5: Matter is Made Up of Moving Particles (p.132)



Key Idea: The behaviour of matter can be explained using the _____

Vocabulary: Neatly print the entire definition. (see glossary p.302-306)

Solid:

Liquid:

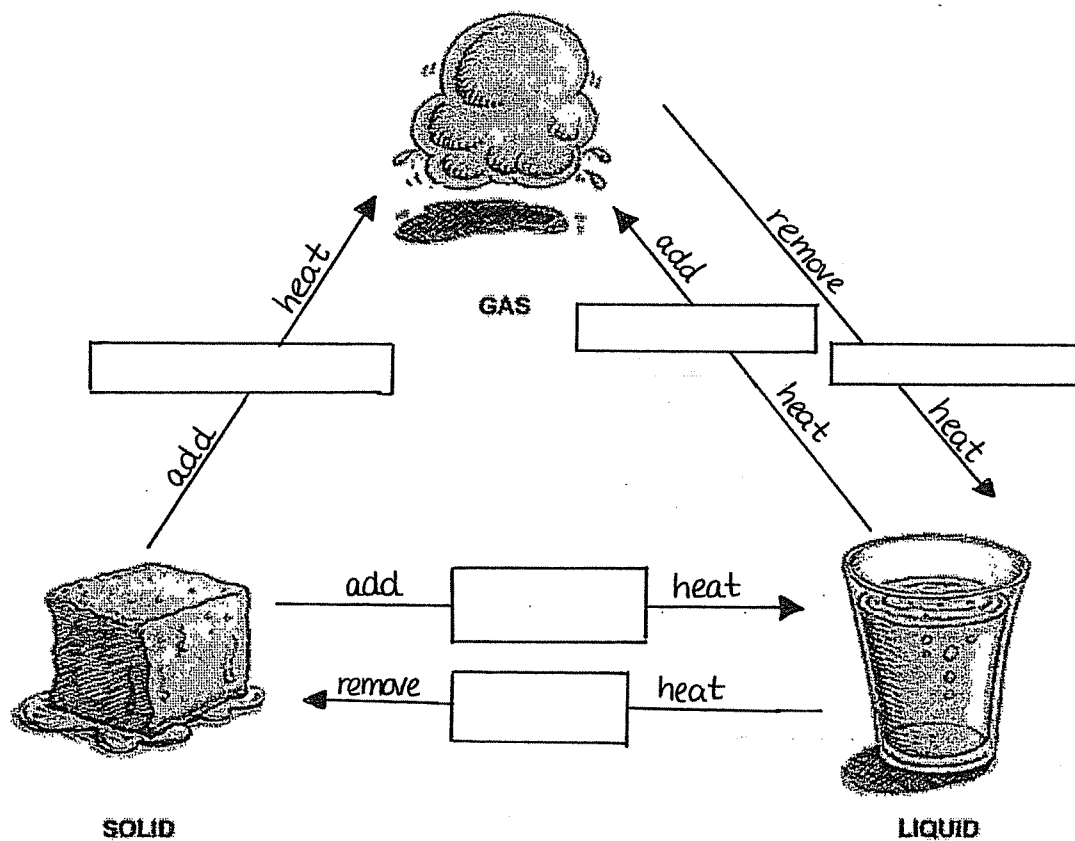
Gas:

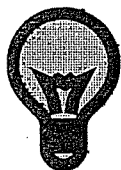
List the four main points in the **PARTICLE MODEL** and sketch each one.

Complete the following table:

State	Solid	Liquid	Gas
Type of particle movement			
Spaces between particles			
Fixed Mass?			
Fixed Volume?			
Fixed Shape?			

Fill in the blanks:





Key Idea: Matter can undergo _____ and _____ changes.

In a **physical change**, the substance that is involved remains _____, even though its form or state may change.

Chemical changes result in the formation of new _____.

_____ do not result in the formation of new substances.

Chemical changes are usually impossible to difficult to _____.

When one substance **dissolves** in another, this is an example of a _____ change.



Key Idea: Changes in matter can be _____ or _____.

An example of a reversible change is: _____

An example of a non-reversible change is: _____



Key Idea: Chemical changes can be distinguished by _____.

List 5 clues that a chemical change may have occurred.

State whether each change is a physical or chemical change and give at least one reason for your answer.

Description of Change	Physical or Chemical	Reason
Frost forms on a window.		
Firecracker explodes.		
Concrete becomes hard after it is poured.		
The burner of an electric stove glows red.		
Liquid nitrogen boils at 196°C		
Butter is heated in a frying pan until it turns brown.		
When a flame is brought near hydrogen gas in a test tube, there is a loud pop.		



Key Idea: Chemical changes occur in our living and non-living _____.

Your Chapter 5 Test in **NEXT CLASS**.

Use this booklet for studying. If you have time, you should review the whole chapter in the textbook (p. 116-135). Do not just read the main body of text, but also read the learning tips, look at all the figures and read their captions. You can check your understanding by mentally answering all of the CYU questions and chapter review questions. If you don't know the answer, go back, reread that section and then try again.