

# Matter and Chemical Change

## Sec. 1.2 - Organizing Matter

Matter exists as a solid liquid or gas.

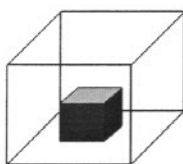
Three states of matter!

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



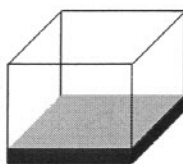
### States of Matter

Glenn  
Research  
Center



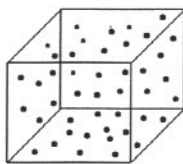
Solid

Holds Shape  
Fixed Volume



Liquid

Shape of Container  
Free Surface  
Fixed Volume



Gas

Shape of Container  
Volume of Container

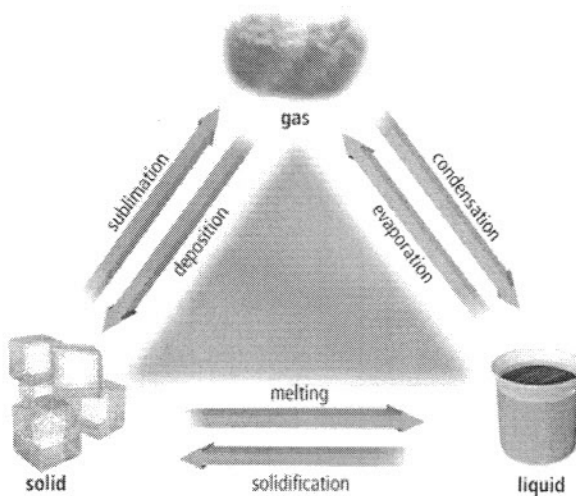


Figure 7.5A Changes of state

**See page 97**

### Physical Properties

Definition:	Examples:
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### Physical Change

Definition:	Examples:
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### Chemical Properties

Definition:	Examples:
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# Chemical Change

Definition:	Examples:
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## Pure Substance or Mixture?

**Pure substance** is made of only one kind of matter and has a unique set of properties that sets it apart from any other kind of matter.

A pure substance may be either an element or a compound.

Element – \_\_\_\_\_

Compound – \_\_\_\_\_

**A mixture is a combination of pure substances.**

Four types of mixtures

Mechanical mixture: \_\_\_\_\_

Solution: \_\_\_\_\_

Suspension: \_\_\_\_\_

\_\_\_\_\_

Colloid: \_\_\_\_\_

\_\_\_\_\_

