

States of Matter:

Name

Per

## Water Cycle and Distillation of Water

### 1. Background:

A. The three main states of matter are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.  
**Plasma** is a 4<sup>th</sup> state of matter that includes changes in atoms.

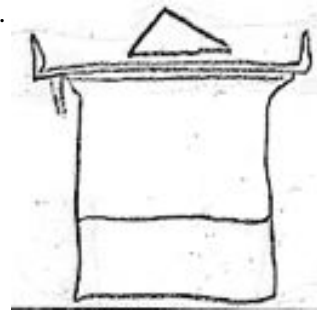
B. Using 20<sup>0</sup> C (Celsius) for normal (room) temperature. Fill in the chart:

Boiling Point	Melting/ Freezing Point	State at normal Temp	Fill in correct Substance for each Oxygen--Sulfur--Copper--H <sub>2</sub> O
100 <sup>0</sup> C	0 <sup>0</sup> C		
2567 <sup>0</sup> C	1083 <sup>0</sup> C		
-183.0 <sup>0</sup> C	-218.4 <sup>0</sup> C		
444.6 <sup>0</sup> C	112.8 <sup>0</sup> C		

### 2. Water Cycle: Demonstrate the three phases of matter:

- Use a glass container, a lid, hot water and a chunk of ice.
- Label. Use these terms.

solid  
liquid  
gas  
condensation  
evaporation  
melting.



### 3. Distillation of Water:

a) Watch the teacher demonstration of distillation of water.

b) Label ON THE DIAGRAM,.  
Use these terms:

impure water  
pure distilled water  
heat source  
water as a gas (vapor or steam)  
cooling water in  
cooling water out  
condensation  
collection flask  
thermometer

