

Name \_\_\_\_\_ Date \_\_\_\_\_ Block \_\_\_\_\_

**Chemistry Review WebQuest**

Go to [www.thesciencequeen.net](http://www.thesciencequeen.net) click on Chemistry Review Webquest under student resources.

**Changing States**

1. What is the melting point of water in Celsius? \_\_\_\_\_

Turn the water back to ice again. Does ice take up a smaller or larger volume of ice?

\_\_\_\_\_

Knowing what you know about particles in a solid & in a liquid, why do you think that is? \_\_\_\_\_

2. What is the boiling point of water in Celsius? \_\_\_\_\_

3. How do you change it back to liquid? \_\_\_\_\_

What is this process called? \_\_\_\_\_

4. What happens when you heat the steam above 100°C? \_\_\_\_\_

Explain why it happens? \_\_\_\_\_

**Reversible & Irreversible Changes**

5. When you put the sugar in the water, where does it go? \_\_\_\_\_

6. Try some other substances. Which ones are water soluble? \_\_\_\_\_

7. Click on the reversing button. In the chart, write the substances that undergo a physical change, and those which undergo a chemical change.

Physical Change	Chemical Change

**Chemical Mix-up**

Play the game. Try to get to level three. Then fill in the chart below using the substances the game used.

Element	Compound	Mixture

**Mixture Lab**

Play the game then fill out the chart.

	Mixture	Separation Mechanism	Physical Properties that allow separation
1	Sand & Iron Fillings		
2	Salad		
3	Salt & Water		
4	Muddy Water		
5	Dust in the Air		

**Chem Balancer**

(Play the game, when you get the formula balanced, you will get the answers to these questions!)

8. What was a ferrier? \_\_\_\_\_ What does Fermium in Latin mean? \_\_\_\_\_

9. Where can you find HCL? \_\_\_\_\_

If you have too much, what can it cause? \_\_\_\_\_

10. What is magnesium used in? \_\_\_\_\_ Why? \_\_\_\_\_

11. Where can Mercury be found? \_\_\_\_\_

12. What happens when Calcium is dropped in water? \_\_\_\_\_

13. Methane is a relative of \_\_\_\_\_ & \_\_\_\_\_.

14. What is the formula for sulfuric acid? \_\_\_\_\_

15. What is a key ingredient in fertilizers & explosives? \_\_\_\_\_

16. What does pyrolysis mean? \_\_\_\_\_

**Changing State Fill in the Blank.**

There are \_\_\_\_\_ states of matter. They are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. We can change a \_\_\_\_\_ into a liquid by \_\_\_\_\_ it until it \_\_\_\_\_. The temperature at which it melts is called the \_\_\_\_\_ of the solid.

If we would continue to heat the liquid the liquid will get \_\_\_\_\_. Eventually it will start to \_\_\_\_\_. This is when liquids become \_\_\_\_\_. The temperature at which it \_\_\_\_\_ is called the \_\_\_\_\_. But a liquid does not need to be heated to the boiling point before it changes state to a gas. It can happen even at room temperature. This process is called \_\_\_\_\_

We can also \_\_\_\_\_ gases down. When gases are been cooled they change states and become \_\_\_\_\_. We call this \_\_\_\_\_. When the liquid is cooled down further it will eventually \_\_\_\_\_. This is when a liquid becomes a solid and the temperature is called the \_\_\_\_\_.

Changing from a solid substance to a liquid and from a liquid to a gas requires heat energy to be \_\_\_\_\_ to the substance.

And changing states from gas to liquid and then to solids involve \_\_\_\_\_ heat energy from the substance.

**Quiz 1**

How did you do? Record your answer & have the teacher initial it.

Score \_\_\_\_\_ Teacher's Initials \_\_\_\_\_

**Quiz 2**

How did you do? Record your answer & have the teacher initial it.

Score \_\_\_\_\_ Teacher's Initials \_\_\_\_\_