**Review for Test #6, 2024-25**

Chemical equations

Because I find that some people have taken my past review sheets literally and studied *only* the questions on them because they thought I’d give exactly the same questions on the test without any changes, I am instead going to give you as complete a list as I can remember of the things you’ll need to know about the material on this test:

Define the following terms:

* Equation
* Reaction
* Product
* Reagent
* Exothermic
* Endothermic
* Solid, liquid, gas, aqueous
* What steam and ice are.
* What that triangle and triangle H mean around equations
* Law of conservation of mass

Understand how to balance equations. I recommend the inventory method, as you know.

Writing complete equations: Know how to write equations that conform to my five points of grading (which are, incidentally, the five points of writing the equations). These are:

* Write the correct formulas on the correct side of the arrow.
* Balance the equation
* Write the states of matter for each compound
* Write the reaction conditions around the arrow, if needed.
* Write a “delta H” term after the reaction to indicate if the reaction is exothermic or endothermic.

Additionally, you should be able to identify what type of reaction is taking place for any chemical equation.

Know the six types of reaction and be able to identify reactions based on their products/reagents. Additionally, you should be prepared to balance these reactions when they are given to you.

If you need help, try these:

Come see me! I’ll be here before school after school Thursday and before school Monday.

Go to my website! [www.chemfiesta.com](http://www.chemfiesta.com/). On this site I have, all totally free:

* A textbook I wrote
* Another book I wrote
* Lots of tutorials
* Many, many practice problems with answers