**Chemical Reactions Revision Sheet**

In addition to the material from the acids and alkalis topic students should know these terms and concepts.

**Vocabulary**

1. **Particle** = a very small portion of matter
2. **Matter** = the substance that everything is made of
3. **Particle theory** = the idea that everything is made of particles
4. **Atom** = the smallest particle of matter
5. **Element** = different types of atoms
6. **Periodic Table** = a table showing information about all the elements
7. **Molecule** = two or more atoms chemical joined (bonded) together
8. **Chemical Formula** = tells you how many atoms of each element is in a molecule
9. **Law of Conservation of Mass** = matter cannot be created or destroyed, only rearranged
10. **Chemical Reaction** = when atom are rearranged for form new substances
11. **Chemical Change** = a change involving a chemical reaction, a new substance is made, irreversible
12. **Physical change** = a change where the substance stays the same, often reversible
13. **Combustion =** chemical reaction when substance burn
14. **Fuel =** substance that stores chemical energy that is released when burnt

**Science Concepts**

I can…

1. Describe how to use a Bunsen burner safely.
2. Recall the evidence of a chemical reaction.
3. Explain the law of conservation of mass.
4. Describe in terms of atoms what happens in a chemical reaction.
5. Give examples of chemical and physical changes.
6. Describe what happens when metals react with acids.
7. Describe the test for hydrogen.
8. Describe what happens when carbonates react with acids.
9. Describe the test for carbon dioxide.
10. Explain what is needed for a combustion reaction (fire triangle).
11. Describe what a fuel is and what they are used for.
12. Write a word equation for metal + acid, metal + carbonates, and combustion reactions.
13. Draw a graph.