Simple Chemical Reactions

Revision

1. Write the word equation for the following and label the reactants and products for each:
2. When isopropanol (C3H8O) burns in oxygen, carbon dioxide, water, and heat are produced.
3. When fluorine gas is put into contact with calcium metal at high temperatures, calcium fluoride powder is created.
4. When sodium metal reacts with iron (II) chloride, iron metal and sodium chloride are formed.
5. The burning of sulfur in oxygen results in sulfur dioxide.
6. Sodium and oxygen react to make a single molecule, sodium oxide
7. What is the difference between physical and chemical change. Mention any 2 examples under each.
8. What are the different states of matter? Explain using a particle in a box model.
9. What is meant by diffusion, Brownian motion and combustion.
10. What is the chemical formula for Hydrochloric acid?
11. Write down the procedure for pop test and lime water test. Write the word equations for both tests.
12. What gas is produced in the pop test?
13. What are the products in lime water test?
14. **A** cannot be compressed. However, when it is heated, it will change its state to **B**. **B** takes up the shape of the container. Further heating will cause **B** to change its state to **C** and **C** and be compressed.

a) What states do **A**, **B** and **C** represent?

b) What could be done in order to change the sate of B back to A? Explain your answer.