S2 Revision Chemistry in Action

1. Which of the following are chemical reactions?

        A      A candle burning

        B      Nail varnish drying

        C      Ice melting

        D      Bacon frying

        E      Water evaporating

1. A reaction between a large piece of metal and an acid was found to be very slow. Give two ways of increasing the reaction speed.
2. What is a catalyst?
3. Name the four ways to speed up a chemical reaction and describe how they do this
4. What is an element?
5. What is a compound?
6. What is an enzyme?
7. A gas is given off when the enzyme catalase in liver breaks down hydrogen peroxide. How would you show that this gas is oxygen? Describe the test and give the result.
8. Write word equations for the following chemical reactions.
   1. Sodium reacts with chlorine to produce sodium chloride
   2. Potassium and water reacts to produce potassium hydroxide and hydrogen
   3. Copper sulphate and water are produced when copper oxide and sulfuric acid react (read this question again carefully!)
   4. When heated, silver oxide reacts to produce silver and oxygen