Non-Negotiables: Chemistry Paper 2

1. What is the rate of a chemical reaction?
Answer:
How fast a reactant is used up or a product is formed.

2. Give one factor that increases the rate of a reaction.
Answer:
Temperature (also: concentration, surface area, or catalyst).

3. What does a catalyst do?
Answer:
It increases the rate of a reaction without being used up.

4. Why does increasing temperature increase reaction rate?
Answer:
Particles move faster and collide more frequently with more energy.

5. What are hydrocarbons?
Answer:
Compounds made only of hydrogen and carbon atoms.

6. What is the general formula for alkanes?
Answer:
C_nH_{2n+2}

7. What type of reaction is combustion?
Answer:
An oxidation reaction where a substance reacts with oxygen.

8. What is chromatography used for?
Answer:
Separating mixtures of soluble substances.

9. What does Rf value measure?
Answer:
How far a substance travels compared to the solvent.

10. What colour does universal indicator turn in an acidic solution?
Answer:
Red/orange (accept either).

11. What is the main gas in Earth's atmosphere today?
Answer:
Nitrogen.

12. What gas is produced by complete combustion of a fuel?
Answer:
Carbon dioxide.

13. What causes global warming?
Answer:
An increase in greenhouse gases such as carbon dioxide trapping heat.

14. What is meant by a finite resource?
Answer:
A resource that will run out and cannot be replaced quickly.

15. Give one way to reduce the use of natural resources.
Answer:
Recycling (also: reusing materials or reducing consumption).