

# Kirkcaldy High School



**Chemistry**

**National 4**

**Unit 2 - Nature's Chemistry**

**TUTORIAL QUESTIONS**

## (a) Fuels

1. What is a fuel?
2. What is a disadvantage of fossil fuels?
3. What is an advantage of using hydrogen rather than fossil fuels?
4. What is combustion?
5. What are 3 "sides" of the fire triangle?
6. What is incomplete combustion?
7. What is an exothermic reaction?

## (b) Homologous Series

1. Name the elements present in a hydrocarbon.
2. Are alkanes saturated or unsaturated? Does this mean they have a single or double bond?
3. Are alkenes saturated or unsaturated? Does this mean they have a single or double bond?
4. Draw ethene
5. Draw ethane

## (c) Everyday Consumer Products

1. Name the elements found in carbohydrates.
2. What is the test for glucose?
3. What is the test for starch?
4. What is the process called to make alcohol?
5. How is alcohol separated from a mixture?
6. What are some uses of carbohydrates?
7. Name some plants and their uses.