

## C1 – Crude Oil Quiz

1. What is combustion?
2. Which pollutant gases are produced during the combustion of fossil fuels?
3. What are the environmental effects of particulates, carbon dioxide, carbon monoxide, nitrogen oxides, and sulphur?
4. Why are particulates and carbon monoxide produced when petrol burns?
5. Why are nitrogen oxides produced during the combustion of petrol?
6. How are carbon dioxide and sulphur dioxide produced when fossil fuels burn?
7. How are harmful substances removed from car exhaust fumes?
8. How is sulphur dioxide removed from industrial waste gases?
9. What are biofuels?
10. What is crude oil?
11. What is a hydrocarbon?
12. Describe how the different hydrocarbons in crude oil are separated.
13. What is a fraction?
14. What are the products of fractional distillation of crude oil?

15. What are the products of fractional distillation of crude oil used for?
16. What are alkanes?
17. Name the first 5 alkanes and give their formula.
18. What is a homologous series?
19. What are alkenes?
20. What is the difference between saturated and unsaturated hydrocarbons?
21. What are the similarities between alkanes and alkenes?
22. What are the differences between alkanes and alkenes?
23. Name the first 4 alkenes and give their formula.
24. What is a displayed formula?
25. State and explain the trend in boiling point, viscosity and volatility of alkanes.
26. What is cracking?
27. Why are long hydrocarbons cracked?
28. What are the conditions for catalytic cracking?
29. How is cracking carried out in the lab?
30. What is a monomer?

31. What is a polymer?
32. How are polymers formed?
33. What is the polymer formed from propene?
34. How do you draw the repeating unit of a polymer from the monomer?
35. Why is polythene used to make plastic shopping bags?
36. What is the disadvantage of using plastics made from crude oil?
37. What are smart polymers?
38. Give examples of smart polymers.
39. What are the problems with recycling polymers?
40. What are the disadvantages of biodegradable polymers?
41. Plastics can be burned to release energy. What are the problems associated with this disposal method?