Paper	Topic	Q No.	Question
Chem 2	C8: Rates and equilibrium	C8.1	How does increasing surface area affect reactions according to collision theory?
Chem 2	C8: Rates and equilibrium	C8.2	What does it mean if equilibrium is reached in a reversible reaction?
Chem 2	C8: Rates and equilibrium	C8.3	How do you calculate gradient of a straight line?
Chem 2	C8: Rates and equilibrium	C8.4	How does increasing pressure affect reactions according to collision theory?
Chem 2	C8: Rates and equilibrium	C8.5	In a chemical reaction, what are the products?
Chem 2	C8: Rates and equilibrium	C8.6	Give 3 different ways you can measure the rate of reaction
Chem 2	C8: Rates and equilibrium	C8.7	What is pressure? What are its units?
Chem 2	C8: Rates and equilibrium	C8.8	How can you use a graph of reaction vs time to calculate rate of reaction?
Chem 2	C8: Rates and equilibrium	C8.9	Write a word equation for a reversible reaction where hydrated copper sulfate can turn into anhydrous copper sulfate and water
Chem 2	C8: Rates and equilibrium	C8.10	What do we call reactions that give out heat to the surroundings?
Chem 2	C8: Rates and equilibrium	C8.11	Give 2 reasons when catalysts are used in industry?
Chem 2	C8: Rates and equilibrium	C8.12	What is rate of reaction?
Chem 2	C8: Rates and equilibrium	C8.13	In a chemical reaction, what are the reactants?
Chem 2	C8: Rates and equilibrium	C8.14	If you are measuring the change in mass of reactants during a reaction, what units might you measure rate of reaction in?
Chem 2	C8: Rates and equilibrium	C8.15	How does increasing concentration affect reactions according to collision theory?
Chem 2	C8: Rates and equilibrium	C8.16	What is a catalyst?
Chem 2	C8: Rates and equilibrium	C8.17	What is a reversible reaction?
Chem 2	C8: Rates and equilibrium	C8.18	Draw a curve and add a tangent line somewhere on it.
Chem 2	C8: Rates and equilibrium	C8.19	How does collision theory explain how reactions happen?
Chem 2	C8: Rates and equilibrium	C8.20	What is equilibrium?
Chem 2	C8: Rates and equilibrium	C8.21	How does increasing temperature affect reactions according to collision theory?
Chem 2	C8: Rates and equilibrium	C8.22	What is concentration? What are its units?
Chem 2	C8: Rates and equilibrium	C8.23	What is the law of conservation of mass?
Chem 2	C8: Rates and equilibrium	C8.24	What do we call reactions that take in energy from the surroundings?
Chem 2	C8: Rates and equilibrium	C8.25	How does increasing using a catalyst affect reactions according to collision theory?
Chem 2	C9: Crude oil and fuels	C9.1	What is the name of the compound with the formula C_3H_8?
Chem 2	C9: Crude oil and fuels	C9.2	What is the name of the process of breaking large hydrocarbons into smaller ones?
Chem 2	C9: Crude oil and fuels	C9.3	What is a catalyst?
Chem 2	C9: Crude oil and fuels	C9.4	Which length hydrocarbons have the lowest boiling points?
Chem 2	C9: Crude oil and fuels	C9.5	What do we call a compound made up of only carbon and hydrogen atoms?
Chem 2	C9: Crude oil and fuels	C9.6	What length hydrocarbons are the most useful for fuels?
Chem 2	C9: Crude oil and fuels	C9.7	What does oxidised mean?
Chem 2	C9: Crude oil and fuels	C9.8	What are alkanes?
Chem 2	C9: Crude oil and fuels	C9.9	What is the word equation for burning a hydrocarbon?
Chem 2	C9: Crude oil and fuels	C9.10	What are alkenes?
Chem 2	C9: Crude oil and fuels	C9.11	Which length hydrocarbons have the lowest viscosity?
Chem 2	C9: Crude oil and fuels	C9.12	In the context of crude oil, what are fractions?
Chem 2	C9: Crude oil and fuels	C9.13	What is a mixture?
Chem 2	C9: Crude oil and fuels	C9.14	What are the 4 steps involved in separating liquids using distillation?
Chem 2	C9: Crude oil and fuels	C9.15	What is the name of the compound with the formula C_4H_{10}?
Chem 2	C9: Crude oil and fuels	C9.16	Which length hydrocarbons have the highest flammability?
Chem 2	C9: Crude oil and fuels	C9.17	What do we call the industrial distillation process for separating crude oil?
Chem 2	C9: Crude oil and fuels	C9.18	What is the name of the reaction where a chemical is broken down by heat?
Chem 2	C9: Crude oil and fuels	C9.19	What is the name of the compound with the formula CH_4?
Chem 2	C9: Crude oil and fuels	C9.20	Under what conditions is carbon monoxide released during burning fuels?
Chem 2	C9: Crude oil and fuels	C9.21	Draw a molecule of Ethane using C-H notation
Chem 2	C9: Crude oil and fuels	C9.22	How do you test for carbon dioxide?
Chem 2	C9: Crude oil and fuels	C9.23	Crude oil is a fossil fuel. What is it a mixture of?
Chem 2	C9: Crude oil and fuels	C9.24	How do you test for an alkene?
Chem 2	C9: Crude oil and fuels	C9.25	Which length hydrocarbons have the highest volatility?
Chem 2	C10: Chemical analysis	C10.1	How do you test for Oxygen?
Chem 2	C10: Chemical analysis	C10.2	At what temperature does water vapour (steam) condense?
Chem 2	C10: Chemical analysis	C10.3	At what temperature does water freeze?
Chem 2	C10: Chemical analysis	C10.4	How do you test for chlorine gas?
Chem 2	C10: Chemical analysis	C10.5	In what state do we find chemicals that have a boiling point lower than room temperature?
Chem 2	C10: Chemical analysis	C10.6	What do we call a mixture designed to produce a useful product e.g. paint, fuels, washing liquid?
Chem 2	C10: Chemical analysis	C10.7	What is a mixture?
Chem 2	C10: Chemical analysis	C10.8	Which separation technique would you use to separate a mixture of different coloured compounds?
Chem 2	C10: Chemical analysis	C10.9	A substance will have the same Rf value provided which 2 things are the same?
Chem 2	C10: Chemical analysis	C10.10	If the Rf factor of a substance is 2, and a solvent rises 4cm, how will the substance rise?
Chem 2	C10: Chemical analysis	C10.11	What is an element?
Chem 2	C10: Chemical analysis	C10.12	What is an impure substance?
Chem 2	C10: Chemical analysis	C10.13	What is the melting point?
Chem 2	C10: Chemical analysis	C10.14	What are the fixed points of water?
Chem 2	C10: Chemical analysis	C10.15	How do you test for carbon dioxide?
Chem 2	C10: Chemical analysis	C10.16	How does chromatography lift different substances up the chromatography paper?
Chem 2	C10: Chemical analysis	C10.17	What is a compound?
Chem 2	C10: Chemical analysis	C10.18	At what temperature does ice melt?
Chem 2	C10: Chemical analysis	C10.19	What is the R_f chromatography equation?
Chem 2	C10: Chemical analysis	C10.20	At what temperature does water boil?
Chem 2	C10: Chemical analysis	C10.21	How do you test for Hydrogen?
Chem 2	C10: Chemical analysis	C10.22	What colour is limewater when carbon dioxide is passed through it?
Chem 2	C10: Chemical analysis	C10.23	What is a pure substance?
Chem 2	C10: Chemical analysis	C10.24	Which 2 of these terms is correct for Carbon Dioxide: it is an element, a compound, an atom or, a molecule?
Chem 2	C10: Chemical analysis	C10.25	Why do you need to be very careful with chlorine gas?
Chem 2	C11: The Earth's atmosphere	C11.1	List the 4 main gases in Earth's present atmosphere and their approximate %
Chem 2	C11: The Earth's atmosphere	C11.2	What gas can be released by burning fossil fuels and leads to acid rain and breathing difficulties?

Chem 2	C11: The Earth's atmosphere	C11.3	How does a high demand for eating beef increase the amount of greenhouse gas emissions?
Chem 2	C11: The Earth's atmosphere	C11.4	How is the ozone layer related to global warming, the greenhouse effect or carbon dioxide?
Chem 2	C11: The Earth's atmosphere	C11.5	What 3 gases were common in the Earth's early atmosphere?
Chem 2	C11: The Earth's atmosphere	C11.6	Name the 3 fossil fuels?
Chem 2	C11: The Earth's atmosphere	C11.7	What do we call the amount of carbon dioxide released as a result of a persons activities over a year?
Chem 2	C11: The Earth's atmosphere	C11.8	What are fossil fuels made from?
Chem 2	C11: The Earth's atmosphere	C11.9	Give 3 reasons why it is difficult to get countries to reduce their greenhouse gas emissions
Chem 2	C11: The Earth's atmosphere	C11.10	Which greenhouse gas is released from swamps and rice fields?
Chem 2	C11: The Earth's atmosphere	C11.11	Name 3 greenhouse gases
Chem 2	C11: The Earth's atmosphere	C11.12	What single reaction do we think was responsible for changing Earth's early atmosphere into the one we have today?
Chem 2	C11: The Earth's atmosphere	C11.13	What do we call the layer of gas around the Earth?
Chem 2	C11: The Earth's atmosphere	C11.14	What reaction is represented by this word equation: 'carbon dioxide + water -> oxygen + glucose'?
Chem 2	C11: The Earth's atmosphere	C11.15	What is the ozone layer?
Chem 2	C11: The Earth's atmosphere	C11.16	What causes the greenhouse effect?
Chem 2	C11: The Earth's atmosphere	C11.17	List 4 risks of global climate change
Chem 2	C11: The Earth's atmosphere	C11.18	Name 2 gases that can be released by burning fossil fuels and lead to acid rain?
Chem 2	C11: The Earth's atmosphere	C11.19	Name the 2 ways that carbon from the atmosphere was 'locked' into rocks?
Chem 2	C11: The Earth's atmosphere	C11.20	What do we call the process where we pump carbon dioxide underground and trap in rocks?
Chem 2	C11: The Earth's atmosphere	C11.21	What 2 gases were removed from the atmosphere by reactions with oxygen?
Chem 2	C11: The Earth's atmosphere	C11.22	Give 4 ways we could reduce carbon emissions
Chem 2	C11: The Earth's atmosphere	C11.23	Which 2 planets have atmospheres similar to Earth's early atmosphere?
Chem 2	C11: The Earth's atmosphere	C11.24	Which greenhouse gas is released from burning fossil fuels?
Chem 2	C11: The Earth's atmosphere	C11.25	Under what conditions is carbon monoxide released during burning fuels?
Chem 2	C12: The Earth's resources	C12.1	What is desalination?
Chem 2	C12: The Earth's resources	C12.2	[HT] What is bioleaching?
Chem 2	C12: The Earth's resources	C12.3	What is electrolysis?
Chem 2	C12: The Earth's resources	C12.4	What are the 4 stages of a Life Cycle Assessment (LCA)?
Chem 2	C12: The Earth's resources	C12.5	Name the 3 fossil fuels?
Chem 2	C12: The Earth's resources	C12.6	What is sustainable development?
Chem 2	C12: The Earth's resources	C12.7	What is an ore?
Chem 2	C12: The Earth's resources	C12.8	What is pure water?
Chem 2	C12: The Earth's resources	C12.9	How can we treat sludge so that we can use it as fertiliser or biofuel?
Chem 2	C12: The Earth's resources	C12.10	What happens during displacement reactions?
Chem 2	C12: The Earth's resources	C12.11	What does anaerobic mean?
Chem 2	C12: The Earth's resources	C12.12	What does the term 'renewable energy source' mean?
Chem 2	C12: The Earth's resources	C12.13	What do we call resources that can be found in their natural form?
Chem 2	C12: The Earth's resources	C12.14	What does the term 'non-renewable energy source' mean?
Chem 2	C12: The Earth's resources	C12.15	What are the two methods of desalination?
Chem 2	C12: The Earth's resources	C12.16	What does aerobic mean?
Chem 2	C12: The Earth's resources	C12.17	What are the 4 stages of treating waste water?
Chem 2	C12: The Earth's resources	C12.18	[HT] What is a leachate?
Chem 2	C12: The Earth's resources	C12.19	What is potable water?
Chem 2	C12: The Earth's resources	C12.20	[HT] What is phytomining?
Chem 2	C12: The Earth's resources	C12.21	What are the 3 normal stages in the process to make potable water?
Chem 2	C12: The Earth's resources	C12.22	[HT] What are the 5 ways of extracting copper from copper ore?
Chem 2	C12: The Earth's resources	C12.23	What are fossil fuels made from?
Chem 2	C12: The Earth's resources	C12.24	What do economic issues relate to?
Chem 2	C12: The Earth's resources	C12.25	What are the 3 advantages of recycling?