Revision checklist

SC20 Fuels

SC20a Hydrocarbons in crude oil and natural gas

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 th	Recall the meaning of the term hydrocarbon.			
6 th	Describe the compounds found in crude oil.			
5 ^{ch}	Describe the importance of crude oil for the petrochemical industry.			
6 th	Explain why crude oil is a finite resource.			
4 th	Recall the names of some common fossil fuels.			

SC20b Fractional distillation of crude oil

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	Describe how crude oil is separated by fractional distillation.			
8 th	Explain how fractional distillation of crude oil works.			
6 th	Recall the names and uses of fractions from crude oil.			
8 th	Describe how fractions differ from each other.			
8 th	Explain why the properties of different fractions differ.			

SC20c The alkane homologous series

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Describe that oil fractions mostly contain alkanes.			
7 th	Describe the main features of an homologous series.			
8 th	Explain why alkanes form an homologous series.			

Sciences

Revision checklist

SC20

SC20d Complete and incomplete combustion

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Describe the complete combustion of hydrocarbon fuels.			
7 th	Explain the production of harmful products during the incomplete combustion of hydrocarbon fuels.			
7 th	Explain why carbon monoxide is toxic.			
7 th	Describe the problems caused by incomplete combustion.			

SC20e Combustible fuels and pollution

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Explain how some hydrocarbon fuels produce sulfur dioxide in use.			
5 th	Recall the names of the pollutants responsible for acid rain.			
5 th	Describe some effects of acid rain.			
6 th	Explain why oxides of nitrogen are produced when fuels are burned in engines.			

SC20f Breaking down hydrocarbons

Step	Learning outcome	Had a look	Nearly there	Nailed it!
9 th	Evaluate hydrogen as an alternative fuel to petrol for cars.			
6 th	Describe what happens during cracking.			
8 th	Explain why alkanes are saturated and alkenes are unsaturated.			
7 th	Explain why cracking is necessary.			

Revision checklist

SC21 Earth and Atmospheric Science

SC21a The early atmosphere

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Describe how the Earth's early atmosphere was formed.			
5 th	State the names and relative amounts of the gases found in the Earth's early atmosphere.			
7 th	Draw conclusions from evidence about the Earth's early atmosphere.			
6 th	Explain how the oceans are thought to have formed.			

SC21b The changing atmosphere

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	Describe how the formation of the oceans influenced the composition of the atmosphere.			
7 th	Explain how photosynthetic organisms (including plants) changed the composition of the atmosphere.			
5 th	State the chemical test for oxygen.			

SC21c The atmosphere today

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Recall the names of significant greenhouse gases.			
7 th	Describe the processes involved in the greenhouse effect.			
6 th	Describe how human activity increases the concentration of greenhouse gases.			
10th	Evaluate the correlation between atmospheric carbon dioxide concentrations and fossil fuel use.			
100	Evaluate the evidence for increased atmospheric greenhouse gas concentrations being part of the cause of global warming and climate change.			

Edexcel GCSE (9-1)

Sciences

Revision checklist

SC21

SC21d Climate change

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Suggest possible effects on the climate of increased levels of carbon dioxide and methane.			
6 th	Describe how human activity leads to increased carbon dioxide levels.			
6 th	Describe how human activity leads to increased methane levels.			
6 th	Describe the projected effects of climate change.			
7 th	Describe how the potential harmful effects of climate change can be addressed and limited.			