Revision checklist cc16-17

CC16 Fuels

CC16a 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 th	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.			

CC16b 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.			

CC16c 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.			

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CC16d 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.			

CC16e 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.			

CC16f 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.			

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CC17 Earth and Atmospheric Science (Paper 4)

CC17a 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.			

CC17b 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.			

CC17c 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.			
10°	Evaluate the correlation between atmospheric carbon dioxide concentrations and fossil fuel use.			
10 ^{ch}	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**

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CC17d 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.			