Section 3A: Petroleum: Breaking and Making Bonds

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Part 1:	Petroleum				
1.	Define and describe pe	troleum.			
2.	Define crude oil.				
3.	What is the main use o	f petroleum? What is t	he second main use of	petroleum?	
4.	Explain two problems with burning of petroleum.				
5.	. Which two elements do hydrocarbons contain?				
6.	Define viscosity.				
7.	List a substance with low viscosity. List a substance with high viscosity.				
8.	Describe how fossil fu	els are formed.			
9.	What is your carbon fo	ootprint?			
Part 2:	: Alkanes				
	What makes a compour	nd and alkane?			

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11.	How many bonds can carbon make?	How many bonds can hydrogen make?			
12.	What does a structural formula show? Draw an example.				
13.	What is the general formula for alkanes.				
Part 3:	Distillation				
14.	Define intermolecular forces.				
15.	Define distillation.				
16.	Define fractional distillation.				
17.	Which characteristic is used by fractioning	towers to separate the components of crude oil?			
18.	List three things affected by intermoleculo	ar forces.			
19.	Define isomer.				
20.	Explain the difference between a straight each.	chain alkane and a branched alkane. Draw an example of			