Materials and the Earth Lesson 6: Crude Oil

Science

Chemistry - Key Stage 3

Miss Willett



What have you learnt already?

1. What is a fossil?

2. Where is the inner core of the earth?

3. What do you find in the middle of an atom?



Crude oil

What am I?!

I transport crude oil across the world

I am where you find crude oil reserves

We are needed to change fossils into crude oil



Formation of crude oil

Answer the following questions:

- 1. Where do we find crude oil?
- 2. How did it form?
- 3. How do we get it out?
- 4. How is it transported?
- 5. What do we use crude oil for?



Formation of crude oil

Answer space:



Crude oil Quick check!

Describe the composition of crude oil using the following words:

Mixture, hydrocarbons, chains, Lengths, compounds



Alkanes

Answer the following:

- Explain what is meant by a hydrocarbon
- Write the general formula for alkanes
- Use the general formula to show the formula of a hydrocarbon with 22 carbon atoms



Alkanes

Answer space:



Alkanes

Complete the table:

Name	Formula	Drawing
methane	CH ₄	
Eth		H H H-C-C-H H H
P	C ₃ H ₈	
Butane		H H H H H-C-C-C-H H H H H



Pro vs Con of crude oil

Complete the table:

Advantages	Disadvantages



Bringing it all together..

Write a short article to inform about crude oil, and discuss whether it should be used for fuels.

Things to include:

- A summary of how crude oil is formed and extracted
- Explain what crude oil is made from
- Acknowledge negatives around using crude oil...
- ..but persuade with the positives!



Bringing it all together..

Answer space:

