

"Nature's Chemistry" – Traffic Lights

Fuels – The Burning Question

What is a fuel?

What do we use fuels for?

What kind of fuels are there?

What is a fossil fuel?

What kind of fossil fuels are there?

How are fossil fuels formed?

What do we mean when we say that fuels are "finite"?

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Crude Oil – From the Rocks to the Road

What is the difference between crude and refined oil?

How do we obtain crude oil?

What do we mean by a “fraction” of crude oil?

How do we split crude oil up into its different “fractions”?

What can each crude oil “fraction” be used for?

What is a hydrocarbon?

What is a “homologous series”?

What is an alkane?

What is a “general formula”?

What is a “full structural formula”?

What is a “shortened structural formula”?

What is the general formula for the homologous series of alkanes?

What is an alkene?

What is the general formula for the homologous series of alkenes?

What is "cracking"?

Why do we "crack" hydrocarbons?

How do we "crack" hydrocarbons?

What is a plastic?

What are plastics used for?

What are plastics made from?

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Pollution – What’s the Alternative?

How do we make energy?

What are the sources of atmospheric pollution?

What gasses make up most of atmospheric pollution?

What is “global warming”?

What causes “global warming”?

Why is the climate changing?

Why will global warming cause Scotland to get colder?

What is the story of an atom of carbon?

What do we mean by “alternative” energy sources?

What are the possible “alternative” energy sources?

What are the advantages and disadvantages of the “alternative” energy sources?

What is a “carbon foot print”?

How could you reduce your “carbon foot print”