

# LESSON-12

## WHAT IF IT FINISHES

### KEY POINTS

Fuels are materials that provide energy on burning,

Fuels like coal and petroleum take millions of years to form. They are formed from the remains of plants and animals that got buried millions of years ago, inside the earth.

Coal and Petroleum are called fossil fuels. These are being used at a very fast rate and thus it is likely that they will soon get exhausted .

The fossil fuels which are exhaustible and can not be renewed are called non-renewable sources of energy.

Petroleum is obtained by drilling holes called oil wells in the earth's crust.

Petroleum is a dark colour thick crude oil

In Greek , petra means rocks and oleum means oil .So the word petroleum means oil from rocks.

Petroleum is extracted and is refined in refineries to get petrol, kerosene and diesel .

Petrol is supplied to petrol pumps , from the refineries.

Petrol is used as fuel in light vehicles

Diesel is a cheap fuel as it requires less refining .It is used in heavy vehicles.

The energy source other than fossil fuel is called alternate source of energy. They are solar energy ,wind energy, energy from flowing water

Q1)What are fuels?

Fuels are materials that provide energy on burning,

Q2)What are fossil fuels?

Fuels like coal, petroleum and natural gas are obtained from the deposits of animals and plants that got buried in soil millions of years ago.

Q3)Why should fossil fuels be used wisely?

Ans :Fossil fuels take millions of years to form.We are using them at a rate much higher than their formation. If we continue using them in high rate,a time will come when we will not have enough fuel for our needs.

Q4) How are fossil fuels formed?

Ans :Fossil fuels are formed from the remains of plants and animals that got buried under the earth before millions of years.

Q5 ] How was petroleum formed ? How is it obtained from the earth's crust ?



Petroleum is a dark coloured thick crude oil found deep below the earth. Lots of petroleum are found under the sea. It is also called the Black Gold.

Petroleum oil was formed when small plants and animals buried under the earth, millions of years ago. Due to high pressure and temperature, their bodies were slowly converted in to petroleum. Petroleum is obtained by drilling holes called the oil wells in the earth's crust.

The petroleum, so obtained is taken to an oil refinery. Here, from crude petroleum, products such as petrol, kerosene, diesel , fuel oil and fuel gas are obtained.

Q.6.Name the countries that produce petrol.

The chief petroleum producing countries are

- 1)Iran
- 2)Iraq
- 3)Saudi Arabia
- 4)Qatar
- 5)USA
- 6)Russia
- 7)Venezuela
- 8)Algeria

Q7) Name few Indian states that are leading petroleum producers

Digboi-Assam

Bombay high-Mumbai

Q8.What is CNG?

Compressed Natural Gas is a gas that is found with petroleum deposits and is released when crude oil is brought to the surface.

Q9)Why is CNG being encouraged to be used as a fuel in vehicles nowadays?

Compressed Natural Gas (CNG) is a clean fuel as it does not produce any smoke and gives very high energy.It is often called an eco-friendly fuel.CNG is used as a fuel in auto rickshaws and buses in Delhi, to control pollution.

Q10)How can we help to save fuels?

We can save fuels by the following methods

- Walk short distances.
- Use your bicycles for short distances, like the local market.
- Use public transports like metros and buses.
- Carpool whenever possible.
- Get your vehicle's pollution level checked at regular intervals.
- Put off the car engine at red light.
- Use eco-friendly fuels.

Q11)What are synthetic fuels?

Synthetic fuels are very expensive to process and hence cannot be manufactured on a large scale.They are made from biomass, coal, natural gas, bituminous sands , oil and shale.

Q12) Why is diesel cheaper than petrol?

Diesel is cheaper than petrol since its extraction processes are simpler. Diesel engines are more efficient than petrol engines of the same power, resulting in lower fuel consumption.

Q13)What are the various product we get from petroleum?

Petrol, Diesel, Kerosene, Vaseline gel are some products we get from petroleum.



Q14)How do we get petrol and diesel?

The petrol and diesel obtained at the oil refinery is supplied to the petrol depots in different parts of the country by trains and trucks.

From these depots, petrol is supplied to petrol pumps by means of trucks.

We get petrol and diesel from these petrol pumps.

Q)15What is coal? How is it formed?

Coal is a valuable natural resource. It is a kind of rock formed from the remains of plants.

1. Millions of years ago , the earth was covered with thick forests growing in swamps.

2 . Due to earthquakes and volcanic eruptions many forests were buried under the surface

3. Due to the high temperature and pressure inside the earth , the remains of the plants turned into coal



Q)16What is coal mine?

A place where plenty of coal is found is called a coal mine.



Coal mine

Q)17Name a few vehicles run on diesel and petrol .

Vehicles that run on diesel.



Motor bikes and cars - run on petrol



Q18 What are the uses of coal?

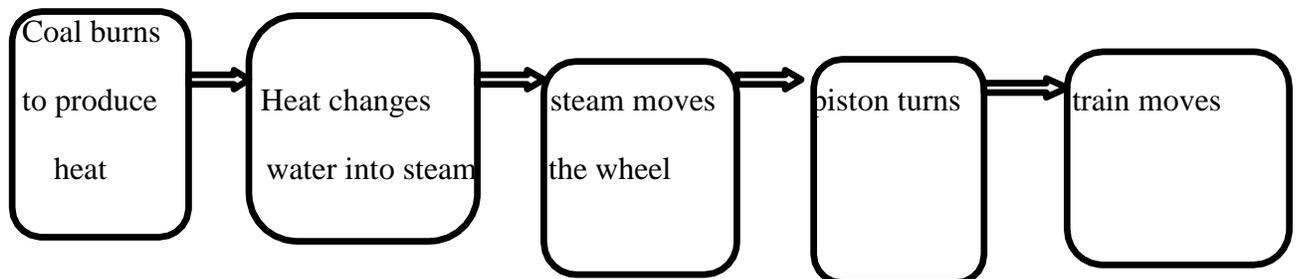


- Coal is used as a fuel mainly for cooking , producing electricity and moving engines
- Many chemicals are made from coal and are used in drugs, plastics, nylons and fertilizers.

Q 19 ] Which fuel is used in steam engine?

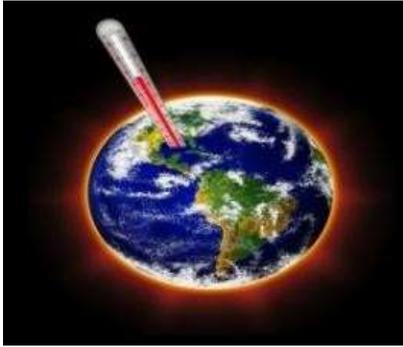
Coal is used in steam engine. It is burned to produce heat .This heat boils water in the boiler to produce steam which moves the piston

Q20).How does a steam engine function?



21]How are fossil fuels responsible for Global Warming ?

Fossil fuels cause pollution when burnt. They release carbon and carbon-di-oxide and other gases into the atmosphere, which results in Global warming



22]What is alternate source of energy ?

The energy source other than fossil fuels is called alternate sources of energy. Some alternate sources of energy are solar energy, wind energy and energy from flowing water



