

# Fractional Distillation

## Fractional Distillation Information: Highlight key words in the text below

Fractional distillation is the process used to separate crude oil into different useful fractions. Crude oil is heated so that most of it turns into a gas and enters a fractionating column. Inside the column there is a temperature gradient, with it being hottest at the bottom and cooler at the top. Different hydrocarbons have different boiling points, so they condense at different heights in the column. This allows the crude oil to be separated into fractions such as gases, petrol, kerosene and diesel.

## Answer the questions below

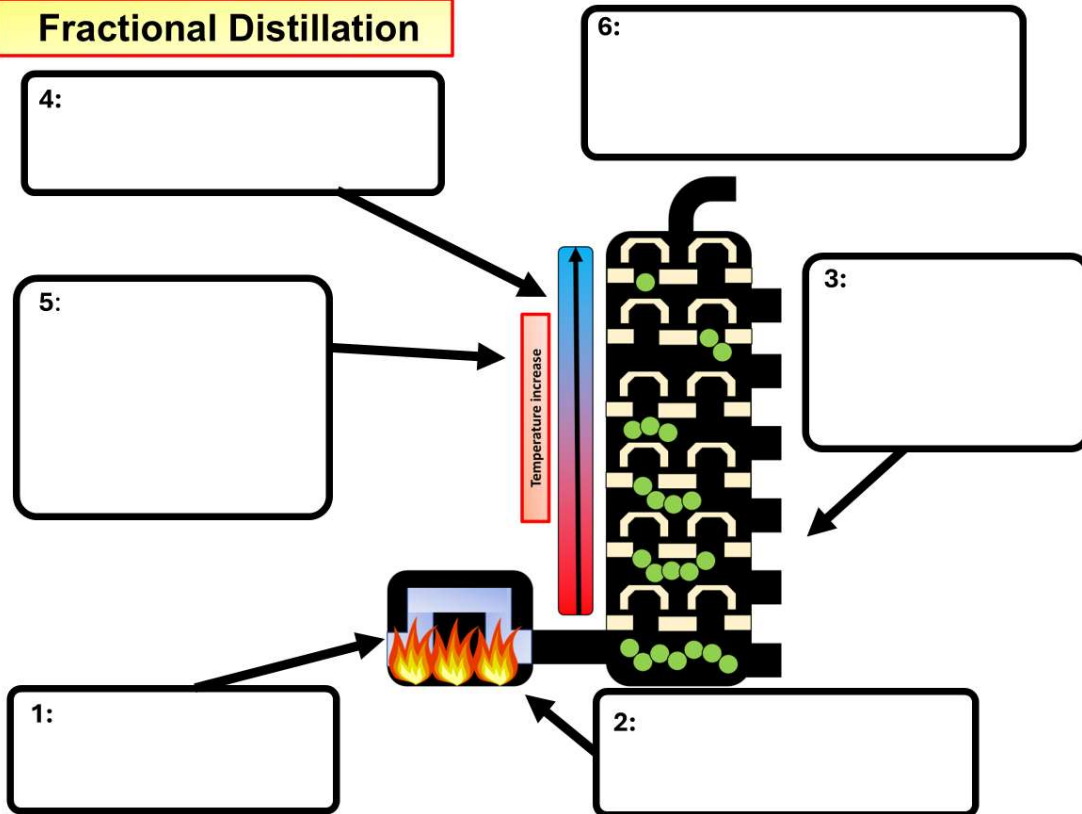
What is fractional distillation used for?

Why do different fractions separate at different heights in the column?

Where is the fractionating column hottest?

## Annotate the diagram below to describe the process of factional distillation

### Fractional Distillation



### Key questions

What is crude oil a mixture of?

What happens to crude oil in the furnace?

Where do the vapours go after heating?

What happens to the vapours as they rise in the column?

Where do hydrocarbons with higher boiling points condense?

What are the separated liquids collected as?

Short  
Answers



Summary  
video



Diagram  
walkthru

