

Item 2

Fossil fuels such as crude oil and natural gas are found in Uganda and are a very important source of energy to run industries. Due to the discovery of crude oil in some parts of Hoima, many residents are unhappy because they are being forcefully relocated so as to pave way for construction of the pipe line to Tanzania where the crude oil is to be fractionally distilled. This has made these residents to start asking around if there are any other uses of these fossil fuels such that they can willingly leave the area for the development and if not they are not willing to leave as they claim that only one use of something cannot make them be relocated.

The district local council five chairman is looking for an expert to sensitize these residents so as to embrace the new development.

Task

As a learner of chemistry, prepare a written message that will be delivered to these locals upon being invited to sensitize them.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Item 3

Alcohols are organic compounds containing a hydroxyl group as their functional group. They have a general formula of $C_nH_{2n+1}OH$, where n is the number of carbon atoms. Akim is a young scientist who is interested in getting some information on alcohols; he wants to know the molecular and structural formulae and names of at least five alcohols. he is also interested in knowing at least five uses of the commonest alcohol.

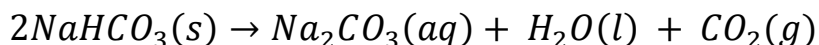
Task

As a learner of chemistry, prepare a presentation that will be delivered to Akim.

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Item 4

Sodium hydrogen carbonate or sodium bicarbonate is one of the substances which is used in making pan cakes. This is used because it softens the cakes and also produces carbon dioxide that increases the size of the cake. The carbon dioxide is produced according to the following equation.



Abbey, the pan cakes maker wants to make pan cakes that require 5000 cm^3 of carbon dioxide gas at room temperature.

Task

As a learner of chemistry, prepared a detailed message showing how Abbey will determine the mass, in grams, of sodium hydrogen carbonate that will be fully decomposed to produce the required volume of carbon dioxide.

Where necessary use

Na=23; C=12; O=16; H=1;

1 mole of gas occupies 24000 cm^3 at room temperature.

END