

Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

angckcri

aneslke

tydroghnaeion

tniectocs

2) Make three sentences using the following nine words or phrases:

cracking alkanes

alkenes

plate tectonics

crude oil

polymerisation

mantle and core

short chains

polythene

continental drift

3) Match the word or phrase with the right meaning:

Cracking

An unsaturated hydrocarbon with a general formula of $C_n H_{2n}$

Alkene

These are formed from plant oils suspended in water

Emulsion

Using heat and a catalyst, the breaking of alkane molecules

Answers:

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cracking

alkenes

hydrogenation

tectonics

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complete the sentence

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Place the right word or words to complete the sentence:



Click mouse to reveal answer

olive

water

milk

tectonic

slowly

trenches

plant

added

billion

- a) Plant oils like _____ oil are an essential part of a healthy diet in humans.
- b) Cream, mayonnaise and _____ are all examples of emulsions.
- c) E621 (monosodium glutamate) is _____ to foods as a flavouring.
- d) Bio-diesel fuels can be made by using _____ oils like palm oil.
- e) Where _____ plates meet, this is called a fault.
- f) Earth's crust is made from huge tectonic plates which move very _____ over time.
- g) Tectonic plate movements can cause mountains, _____, earthquakes and volcanoes.
- h) Plants, billions of years ago were responsible for reducing _____ and carbon dioxide levels in our early atmosphere.
- i) Burning fossil fuels is adding 3 _____ tonnes every year of CO₂ into the atmosphere.

complete the sentence

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multiple choice

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1: The process of making short chained from long chained hydrocarbons is called ?

- A Distillation
- B Evaporation
- C Polymerisation
- D Cracking

2: Which of the following hydrocarbons would decolourise bromine water ?

- A Ethene
- B Ethane
- C Propane
- D Butane

3: The alkene, ethene is used to make which product ?

- A PVC
- B Polythene
- C Nylon
- D Rubber

4: Alcohol can be made during the fermentation sugar or by ?

- A Adding steam to ethene
- B Adding hydrogen to ethane
- C Cracking butane
- D Polymerising ethene

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4: Alcohol can be made during the fermentation of sugar or by ?

A Adding steam to ethene

B

C

D



5: Which of the following seeds and fruits are good sources of plant oils ?

- A Daisy, apple and pear
 - B Olive, sunflower and carrot
 - C Oilseed rape, sunflower and olive
 - D Tulip, Maize and Rice
-

6: Which of the following is not an example of an emulsion ?

- A Mayonnaise
 - B Milk
 - C Cola drink
 - D Double cream
-

7: Which gas from the following makes up about 79% of the Earth's atmosphere ?

- A Air
 - B Oxygen
 - C Carbon dioxide
 - D Nitrogen
-

8: Where tectonic plates meet and collide with each other, you often find ?

- A Trenches only
 - B Mountains, volcanoes and earthquakes
 - C Earthquakes only
 - D Volcanoes and earthquakes
-

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multiple choice

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Click mouse to reveal answer

9: Why should we not dump our plastic rubbish in landfill sites ?

- A Plastics kill animals
 - B Plastic degrades very slowly
 - C Plastic gets into the water supply
 - D Plastic helps spread disease
-

10: Looking at the ingredients in a squash drink. What does beta carotene do ?

- A Controls the drink's acidity
 - B Colours the drink orange
 - C Makes the drink sweet
 - D Preserves the drink
-

11: Africa and South America use to be joined, what's the best evidence for this ?

- A People remember this fact
 - B Fossil evidence proves this
 - C They fit into one another
 - D Similar trees grow on both coastlines
-

12: When oil and hydrogen are reacted together, the oil undergoes ?

- A Condensation
 - B Unsaturation
 - C Hydrogenation
 - D Combustion
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Chemistry 1B (CHY 1B)

true or false

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Decide whether the following statements are true or false:



[Click mouse to reveal answer](#)

Statements:	True	False
1: Plant oils like olive oil are an essential part of a healthy diet in humans ?	True	False
2: Plant oils are energy stores, with the energy originally coming from the soil ?	True	False
3: Cream, mayonnaise and milk are all examples of emulsions ?	True	False
4: Chips cooked in oil cook more slowly than potatoes cooked in water ?	True	False
5: E621 (monosodium glutamate) is added to foods as an artificial sweetener ?	True	False
6: Solid hydrogenated fats are made by adding hydrogen to liquid plant oil molecules ?	True	False
7: The test for a saturated fat is to see if it decolourises bromine water ?	True	False
8: Oilseed rape is a very useful crop because just under half the seed's mass is oil ?	True	False
9: Bio-diesel fuels can be made by using plant oils like palm oil ?	True	False
10: Ethanol made from fermenting cane sugar is a carbon neutral fuel ?	True	False

Chemistry 1B (CHY 1B)

true or false

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Decide whether the following statements are true or false:



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Statements:	True	False
1: The Earth is a layered structure comprising of the crust, mantle and nucleus ?	True	False
2: The Earth's crust is made from huge tectonic plates which move very slowly over time ?	True	False
3: The temperature of the Earth's mantle is between 1500°C and 4500°C ?	True	False
4: The core is made from iron and nickel superheated to about 5000°C ?	True	False
5: Where tectonic plates meet, this is called a fault ?	True	False
6: Scientists can now predict very accurately when and where an earthquake will occur ?	True	False
7: Tectonic plate movements can cause mountains, trenches, earthquakes and volcanoes ?	True	False
8: The early atmosphere consisted of very little oxygen, lots of carbon dioxide and water ?	True	False
9: Plants, billions of years ago were responsible for reducing water and carbon dioxide levels ?	True	False
10: Burning fossil fuels is adding 3 billion tonnes every year of CO ₂ into the atmosphere ?	True	False

Chemistry 1B (CHY 1B)

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