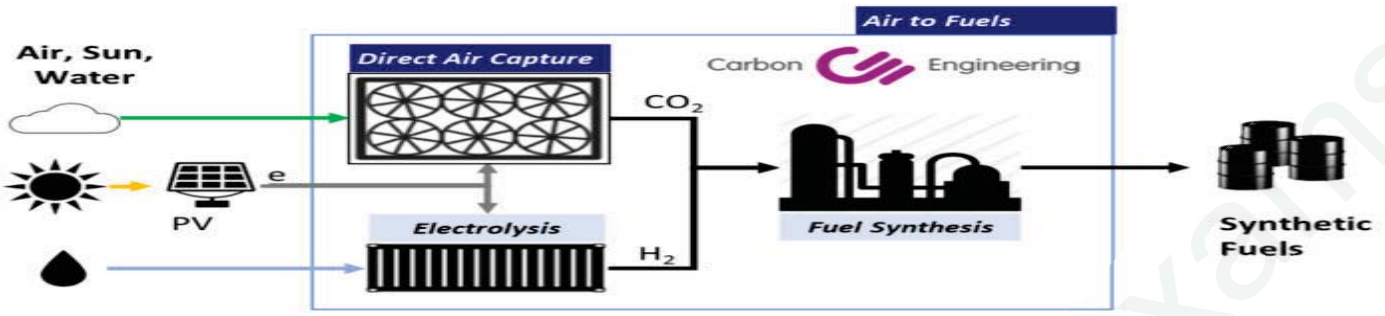
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Hali Abdelkarim secondary school — Level/2nd year Sciences/Math/Math Tech

The second Examination of English

Scientists close to turning air into fuel



Scientists at the Canadian company Carbon Engineering have said they are close to making carbon capture work. Carbon capture is the process of capturing waste carbon dioxide (CO2) from places like power plants and then storing it so it does not harm the environment. Carbon Engineering says its scientists are close to capturing CO2 from the atmosphere and turning it into carbon-neutral fuel. This could be a big step forward in the fight against global warming. The scientists also said they have greatly reduced the cost of carbon capture, to as low as $94 per ton of CO2 captured. Many scientists believed carbon capture would cost about $1,000 per ton captured.

The technology works by sucking air into special industrial towers. The CO2 is mixed with an alkaline liquid and frozen. It is then heated and combined with hydrogen. This produces liquid fuels like gasoline and jet fuel. The founder of Carbon Engineering, Professor David Keith, was optimistic about the future of this process. He believes his company could help to combat climate change. He said: "After 100 years of practical engineering and cost analysis, we can confidently say that while air capture is not some magical cheap solution, it is a viable and buildable technology for producing carbon-neutral fuels in the immediate future, and for removing carbon in the long run"

The Sciencemag.org/11th of June,2018

Ex1:The text above is talking about:

a-Pollution around the world. b-Peace & war issue. c-Invention of new technology.

Ex2/Say if these statements are (True) or (False) according to the text:

a-A European company is turning CO2 in the air into fuel.
b-Carbon capture is the processing of waste CO2.
c-The new method could cost less than €100 per ton of captured carbon.
d-The new technology will not be able to make fluid fuel.

Ex3/Fill in the chart with information from the text:

Carbon capture

What is it??	Who would do it?	The cost(price)?	The result?

Ex4/What or who do the underlined words refer to in the text:

a-It(§1) b-His(§2)

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Text exploration:

Ex1/Match words in column(A) with their synonyms in column(B):

A-Words:	B-synonyms:
1-optimist	a-evaluation
2-removing	b-eradicating
3-storing	c-hopeful
4-analysis	d-keeping

Ex2/Complete the following table:

Verb	Noun	Adjective
		Practical
	heat	
To change		

Ex3/Give the correct forms of verbs between brackets:

If you (throw) a piece of dry wood into a pool,the wood (float).The upward push of the water(make) this possible.An object that (sink) in water like piece of iron(weigh) less under water than in the air.

Ex4/Mark the stress on the following words:

Technology – magical – solution – optimistic

Ex5/Fill in each gap with only one word from the list:

(Photosynthesis – responsible – increase – scientists – genetically –sunlight)

Plants biologists have thought of clever way to……1…… the size of crops by as much as 20%.They have……2…… modified part of mechanism in plants that is……3…… for photosynthesis.Of course,……4…… is the most important chemical reaction in the world.

Written expression: **Choose only one of the following topics:**

Topic1/ The famous proverb says:"Necessity is the mother of invention". Write a short composition explaining the proverb above by giving concrete examples from the real life.

Topic2/ Noise is considered as the fourth type of pollution nowadays. Using the following notes write a short essay to describe this phenomenon:

-What is noise pollution?
-What are its main sources?
-What are its main effects on environment?
-Practical suggestions to eradicate it.

Good luck for all

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