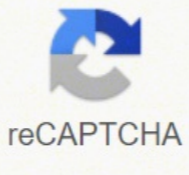




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Question 9

There is much international concern that an increase in the atmospheric concentrations of methane and carbon dioxide can lead to global warming. The table shows the atmospheric concentration of methane and carbon dioxide over the last 20 years.

year	percentage, by volume, of methane in the atmosphere	percentage, by volume, of carbon dioxide in the atmosphere
1988	1.68×10^{-3}	3.49×10^{-2}
1993	1.71×10^{-3}	3.55×10^{-2}
1998	1.73×10^{-3}	3.65×10^{-2}
2003	1.78×10^{-3}	3.75×10^{-2}
2008	1.79×10^{-3}	3.85×10^{-2}

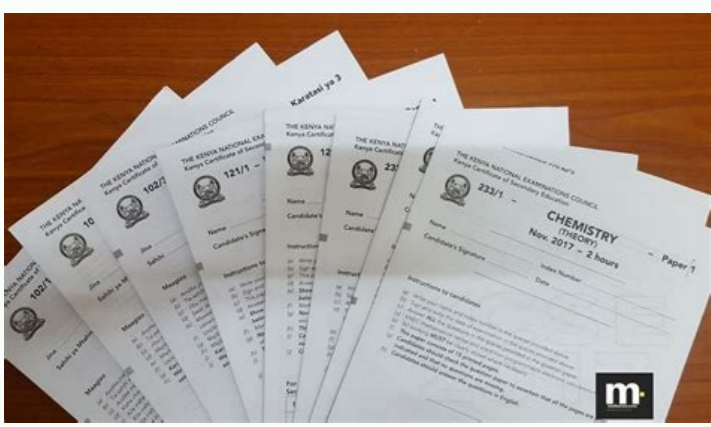
Methane is about 30 times more effective than carbon dioxide as a greenhouse gas.

(a) Give **one** source of atmospheric methane. [1]

(b) Describe **two** possible consequences of an increase in global warming. [2]

(c) Use the information above to explain why scientists are as concerned about methane in the atmosphere as carbon dioxide. [2]

(d) Draw a 'dot-and-cross' diagram for methane, CH₄. You only need to draw the all the electrons of the carbon atom. [1]



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Answer 6:
The modern day animals and their ancient fossils are listed in the following table.

Animal	Fossil
1. Man	Ramapithecus
2. Horse	Eohippus
3. Dog	Leplogon
4. Camel	Protylops
5. Elephant	Mastodons
6. Whale	Protocetus
7. Fish	Arandopsis
8. Tetrapods	Ichthyostega
9. Bat	Archaeonycteris
10. Giraffe	Palaentragus

Question 7:
Practise drawing various animals and plants.
Answer 7:
Ask your teachers and parents to suggest the names of plants and animals and practice drawing them. You can also take help from your book to find the names of plants and animals.

Question 8:
Describe one example of adaptive radiation.
Answer 8:
Adaptive radiation is an evolutionary process that produces new species from a single, rapidly diversifying lineage. This process occurs due to natural selection. An example of adaptive radiation is Darwin finches, found in Galapagos Island. A large variety of finches is present in Galapagos Island that arose from a single species, which reached this land accidentally. As a result, many new species have evolved, diverged, and adapted to occupy new habitats. These finches have developed different eating habits and different types of beaks to suit their feeding habits. The insectivorous, blood sucking, and other species of finches with varied dietary habits have evolved from a single seed eating finch ancestor.

Question 9:
Can we call human evolution as adaptive radiation?
Answer 9:
No, human evolution cannot be called adaptive radiation. This is because adaptive radiation is an evolutionary process that produces new species from a single, rapidly diversifying lineage, which is not the case with human evolution. Human evolution is a gradual process that took place slowly in time. It represents an example of anagenesis.

Question 10:
Using various resources such as your school library or the internet and discussions with your teacher, trace the evolutionary stages of any one animal say horse.

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P1 REVISION - CHAPTER 1a - Energy Tfr by Heating

<p>Infrared Radiation What gives off infrared radiation? What is a vacuum?</p>	<p>Surfaces & Radiation What surfaces are good absorbers of infrared radiation? What surfaces are slow to emit infrared radiation? What surfaces are good reflectors of infrared radiation?</p>	<p>States of Matter Draw and label the 3 states of matter.</p>
<p>Conduction/Convection Where does conduction occur? Where does convection occur? What is a poor conductor called? Why does a fluid become less dense when it is heated?</p>	<p>Evaporation & Condensation What 3 things can increase the rate of evaporation? What 2 things can increase the rate of condensation?</p>	<p>Give an explanation of how they differ to each other.</p>
<p>KEY WORDS: Absorbers Emitters Reflectors Conduction Conductor Insulator</p>		<p>ASSESSMENT: ★ P</p>

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Se a USCIS aprovar o pedido, o indivíduo faz o Juramento de Fidelidade e recebe um Certificado de NaturalizaçãO.N-400Form N-400 A© o pedido oficial de naturalizaçãO. Os cidadãOs tambãO gozam de processamento prioritãrio quando querem trazer os seus familiares para os EUA como residentes. O formulãrio N-400 A© o formulãrio utilizado para os candidatos A naturalizaçãO.NaturalizaçãO vs. Todas as respostas requerem uma resposta "verdadeira" ou "ãe not true". Transporte em Plantas e Animais - Formulãrio 2 Notas de Biologia RespiraçãO em Plantas e Animais - Formulãrio 2 Notas de Biologia Troca Gasosa em Plantas e Animais - Formulãrio 2 Notas de Biologia ExcreçãO e Homeostasia - Formulãrio 2 Notas de Biologia Tentativa Formulãrio 2 Questães de Biologia sobre Transporte em Plantas, Transporte em Animais, Troca Gasosa em Plantas, Troca Gasosa em Animais (respiraçãO), ExcreçãO, Homeostasia. Aqueles que querem candidatar-se com base no serviçO militar, vivem fora dos Estados Unidos ou querem usar uma dispensa de taxa tãO de A paper version of the form and send it through the mail.n-445Form N-445 is the naturalization oath ceremony. This comes with additional responsibilities such as supporting the United States and serving the country through the military service when necessary. It supervises the application process to citizenship in the United States. Individuals preparing to take oath must sign the form to indicate the accuracy of information. Naturalization Eligibility Sheet The eligibility sheet of naturalization is a tool to help people determine if they meet the requirements to become the United States citizens. USCIS provides a link to download a PDF file from this form along with instructions for your filing. The constitution extends the rights both to citizens and permanent residents, citizens have additional beneficiaries, informs the services of citizenship and immigration of the United States. 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It provides a list of items to bring to the ceremony and a section with a series of questions for the© person to answer in a éãã A This form has 18 parts, committing information about their eligibility and ending with the oath of allegiance. It raises© a series of questions about the age, status of residence and military service of the individual who intends to require naturalization. After that, the applicant must attend a consultation and interview on biometrics. Classification II - Form 1 Biological Notes Ecology - Form 1 Biological Notes Sheet Ing - Summary 1 Biological Notes Sheet Ing - Form 1 Biological Notes Reproduction on Plants and animals - Form 1 Biological Notes Growth and Development - Form 1 Biological Notes Attempt Form 3 Questions of biological review on Classification II, Ecology, Adaptation of Pollution, reproduction, external and internal fertilization in animals and growth and development. 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