SCHOOL ACCOLADES
Std 5
Elementary Science

Weekly worksheet of 2nd term (5th week)

29.6.2021	Chapter-12	Read the whole chapter 3 times , mid term syllabus
30.6.2021	Chapter-12	Word meaning, fill in the blanks, matching sentences
01.07.2021	Chapter-12	Short & descriptive questions (from book)
04.2021	Chapter-12	Board questions

Chapter-12:

1.climate change: A significant and persistent change in the climate and / or its variability.
2.climate change adaptation: The measure to survive in the changing climates.
3.climate change mitigation: The actions that will limit the magnitude and/ or rate of long -term climate change.
4.global warming:Gradual increase of the earth's average temperature.
5.green house effect: The phenomena of trapping heat in the atmosphere through water vapour , carbon dioxide and other gases.
6.greenhouse gases: The gases that trap heat causing greenhouse effect.

Short Question Answer:

1.What is global warming?
Ans: The gradual increase in the average temperature of the atmosphere caused by the increase of particular gases , specially carbon dioxide is called global warming.

2.What is the main cause of the global warming?
Ans: The increase of the amount of carbon dioxide in the atmosphere is the main cause of global warming.

3.Give an example of the climate change in Bangladesh?
Ans: The frequent recurrence of natural disasters is an example of climate change in Bangladesh.

4.What are the effects of global warming on the environment?
Ans: Global warming causes frequent recurrence of natural disasters.Due to global warming, a great many species of animals and plants have already met extinction and many of them are at the verge of extinction.Ecological imbalance is it's ultimate consequence.Millions of people are suffering from incurable diseases including cancer as a consequence of the fatality of global warming.

Descriptive Questions Answer:

1.Why does the inside of greenhouse remain warm? Explain.
Ans: In cold countries where plants cannot exist for ice and bitter cold , green vegetables are grown there in greenhouse.Greenhouse means a house built of glass or plastic.Glass or plastic is used in the houses because it heat from getting out of the house.As a result, the inside of a greenhouse remains warm.
2.How are climate change mitigation and climate change adaptation related to each other?
Ans: The main cause of climate change is the increase of the amount of carbon dioxide in the atmosphere.So, we can decrease the rate of climate change taking steps to decrease the emission of carbon dioxide in the atmosphere.As a measure of mitigation, we can reduce the use of coal , oil and natural gas.We can increase the use of solar energy, wind energy biomass energy and water current energy.Plants take in carbon dioxide for producing food.

So, we should plant trees as more as possible.Besides, we can decrease the uses of energy in our daily lives .We can face the effects of climate change by means of certain strategies like reducing the severity of climate change.In this way, we can relate climate change mitigation to adaptation with the changing climate.

3. How can we mitigate climate change?

Ans: Climate change has been causing various natural calamities.So , we should take some effective steps to mitigate climate change.The following steps can be taken to mitigate climate change:

1)To minimize the emission of carbon dioxide in the atmosphere by reducing the use of fossil fuels (coal , oil , and natural gases) which are not renewable.

2)To increase the use of renewable sources of energy.

3)Planting trees as more as possible so that they can absorb adequate amount of carbon dioxide from the atmosphere.

4)To practice reducing and recycling of different things that satisfy our practical demand.

4.Why does the atmosphere of the earth work as the glass of greenhouse?

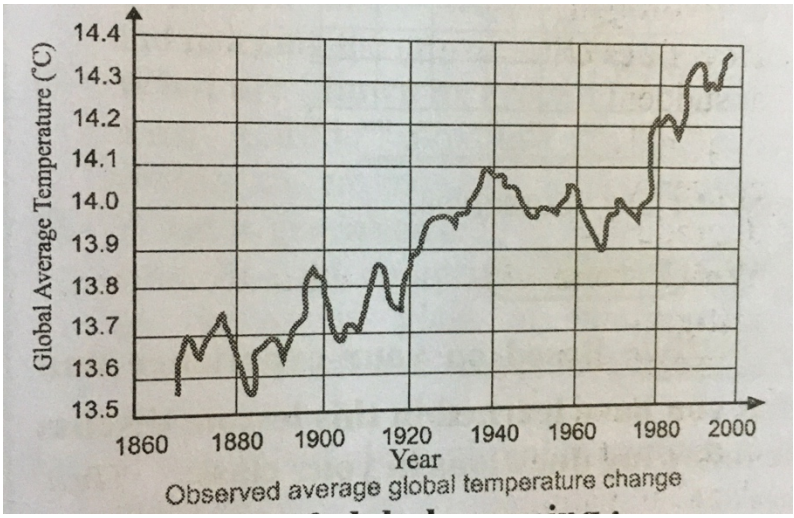
Ans: We know that in cold countries, green vegetables are grown in a house made of glass or plastic which is known as green-house .We know that the heat trapped inside the glass house is known as green-house effect.Greenhouse helps grow vegetables by ensuring adequate temperature and humidity.Atmosphere consists of different gases such as carbon dioxide, methane , nitrogen, etc.Carbon dioxide gas prevents heat to get released oxygen from the earth's surface.This is why it is called a greenhouse gas.Consequently, atmosphere of the earth becomes hot to hotter causing global warming.

5.What is climate change adaptation?Explain.

Ans:Scientists tell us that climate change is a continuous process.Many countries of the world have already taken various programs to adapt themselves to the changing climate.The programs that are taken for existence on the earth due to climate change is known as adaptation. Climate change causes various natural calamities. The main object of adaptation is to minimize the risks of climate change. Due to climate change we are facing various diseases every year. So , we also should take some constructive steps for our existence on earth.

6. As the average temperature of the earth is increasing, how will it affect our life?

Ans: According to the scientists, average global temperature is rising gradually. A graph showing the rise in average temperature is given below:



Consequences of global warming:

1)Both frequency and severity of cyclone, tornado and tidal surge will go high to higher.
2) There will be excessive rainfall and sudden floods.
3) There will be long- lasting drought during summer .
4) Sea – level will rise and one- third of our coastal area will go under water for ever.
5) Saline sea- water will enter the rivers and the arable land areas that will cause massive crop-failure.
6) Millions of people will become homeless and they will suffer from the scarcity of food and safe water.

<u>Answer to the board questions:</u>

1.Write two human activities for which climate may change.
Ans: Two human activities for which climate may change.
Ans: Two human activities for which climate may change:
1)burning of fossil fuel like coal , oil, natural gas and so on.
2) deforestation and increase of the amount of carbon dioxide in the air.
2. Write two ways to adopt with the risks of climate change.
Ans: Two ways to adopt with the risks of climate change:

1) **Construction of flood and cyclone shelters.**
2) **Coastal afforestation.**

3. Write a duty of using natural resources wisely.
Ans: The significant and persistent change in the climate and its variability is called climate change.
4. Write an effect of global warming on sea water.
Ans: The sea water level is rising gradually due to global warming.
5.Write two effects of climate change in our life.
Ans: Two effects of climate :

1) **Increase the frequency and severity of tropical cyclone and storm.**
2) **Heavier and more erratic rainfall causing flood.**

6.Write a sentence on how the climate is changing due to global warming.
Ans: Due to global warming, the average global temperature increases gradually that leads to change in climate conditions such as rainfall.
7. Write two names of natural disasters due to climate change.
Ans: Two natural disasters caused due to climate change.
1)increasing frequency and severity of tropical cyclone and tidal bores.
2) heavier and more erratic rainfall causing flood.
8. What is the main cause of global warming?
Ans: Average increase of global temperature is called of global warming is the increase of the amount of carbon dioxide in the atmosphere.
9. Write two strategies to overcome the impacts of climate change.
Ans: Two strategies to overcome the impacts of climate change.

1) **Reducing carbon dioxide emission by decreasing the use of fossil fuel such as coal , oil and natural gas.**
2) **Massive afforestation.**

10. What is the rising of the average temperature of the earth known as?
Ans: Global warming.
11. What is condensation?
Ans: The process of converting a gas into a liquid by lowering its temperature is called condensation.

<u>Fill in the blanks:</u>

1.Average increase of earth's temperature is called global _____.(warming)
2.The earth's _____ temperature is increasing day by day.(average)

3.Due to the_____ , the absorption of carbon dioxide by the trees is decreasing.(deforestation)
4.Due to the global warming, the._____ of the earth is changing gradually.(climate)
5.A significant and._____ change in the climate and its variability is called climate change.(persistent)
6. The loss of forests causes the changes of _____. (climate)
7.Climate is the average _____condition of a certain area for a long period of time.(weather)
8.We can _____natural resources by using less energy.(conserve)
9.People clear _____to cultivate more crops or farm more livestock.(forests)
10.The gradual increase of the earth's average temperature is called _____.(global warming)
11. The average global temperature._____ every year.(fluctuates)
12. We can reduce._____ in the atmosphere by planting trees.(carbon)
13.We have to face a variety of natural _____.(disasters)

Matching sentences:

Left	Right
In Boishakh every year	One of the most disaster prone countries.
The earth is surrounded	Reduce by planting trees.
The ozone layer prevents	Are fossil fuels.
Greenhouse are used in cold countries	The sun's heat.
Carbon dioxide, methane and nitrous oxide are	Does not change suddenly.
The climate of an area	Non' wester takes place in Bangladesh.
A greenhouse traps	By air.
Coal, oil and natural gas	UV rays from entering the earth.
The amount of carbon dioxide can be	For growing green vegetables.
Bangladesh is	Greenhouse gases.

Answer to the board questions:

1.What is climate change adaptation? Write four measures to survive in the adverse situation caused by the climate change.

Ans: The measures taken to survive in the changing climate is called climate change adaptation.It aims at lowering the risks caused by climate change.Measures to survive in adverse situation due to climate change:

1)construction of flood an cyclone shelters.
2)coastal afforestation.
3)growing such crops as are tolerant of the effects of climate change.
4)developing infrastructures.

2.What is climate change? Write four human activities which cause global warming.

Ans: A significant and persistent change in the climate and its variability is called climate change.
Four human activities which causes global warming:

1) **Burning fossil fuels such as oil coal and so on.**
2) **Deforestation.**
3) **Increase of the amount of carbon dioxide in the atmosphere.**
4) **Air pollution.**

3. What is climate change adaptation? Write five of our activities to mitigate the rate of climate change.

Ans: The measures to survive in the changing climate is climate is called climate change adaptation.
Activities to mitigate the rate of climate change:

1) to reduce the emission of carbon dioxide.
2) to decrease the use of fossil fuel.
3) to plant more trees.
4) to reduce energy consumption in daily life.

4. What is global warming? Write four sentences on how we can mitigate climate change.

Ans: The gradual increase in temperature of the earth's atmosphere caused by the increase of the amount of particular gases , specially carbon dioxide is called global warming.
Climate change can cause various natural calamities. So , we should take some effective steps to mitigate the rate of climate change. The following steps can be taken to mitigate climate change:

1. **To minimize the emission of carbon dioxide in the atmosphere by reducing the use of fossil fuels (coal, oil and natural gases) which are not renewable.**
2. **To increase the use of renewable sources of energy.**
3. **Planting trees as more as possible so that they can absorb adequate amount of carbon dioxide from the atmosphere.**
4. **To practice reducing, reusing and recycling of different things that satisfy our practical demand.**

5.Write five ways of climate change adaptation.

Ans: The measures to survive in the changing climate is called climate change adaptation. Five ways of climate change adaptation:

1) infrastructure development.
2) construction of flood and cyclone shelters.
3) massive afforestation.
4) developing HYV of crops tolerant of drought, flood and salinity.
5) planned urbanization and industrialization.

6.What is the name of the gas responsible to capture heat in the earth? Write four ways to reduce the rate of these gas emission.

Ans: The name of the gases responsible for capturing heat in the earth is carbon dioxide.
Ways to reduce the rate of emission of carbon dioxide:

1) reducing the use of fossil fuels such as coal , oil and natural gas.
2) increasing the use of renewable energy sources.
3) reducing energy consumption in or daily life.
4) massive afforestation along with stopping deforestation.

7.Write two strategies to face the effects of climate change. What steps should be taken to reduce the risk of natural disasters caused by climate change in your community ? Write three sentences about it.

Ans: Two strategies to face the effects of climate change:

1) to use solar energy and wind energy instead of using natural gas, coal and oil.
2) to plant more and more trees and to stop cutting down anymore tree.

The following steps should be taken to reduce the risk of natural disasters caused by climate change:

1) infrastructure development
2) construction of flood and cyclone shelters

3)massive afforestation
4) developing HYV of crops tolerant of drought, flood and salinity
5) planned urbanization and industrialization.

8.What is global warming?
Mention two reasons of global warming.
Mention two tasks to survive in adverse conditions.
Ans: Global warming refers to the increase in temperature of the atmosphere.
1) huge emission of carbon dioxide, sulphur dioxide, nitrous oxide and carbon monoxide from factories and motor vehicles round the clock.
2) indiscriminate destruction of forest resources at random all the year round across the world.
Two tasks to survive in adverse condition are:
1) conservation of forest resource
2) using renewable substitutes of energy.