DISNEY KINDERGARTEN AND PRIMARY SCHOOL MONDAY 30TH March, 2020

Characteristics of different types of soil.
<u>Loam soil</u>
- It has a lot of humus.
- It has balanced particles of clay and sand.
- It is well aerated.
- It is very dark and loose.
Sand soil
It has large and rough particles
It drains easily
It has no loam soil, clay soil, Sand soil and humus <u>Clay soil</u>
It retains a lot of water
It has fine, smooth and compact particles
It is slippery and sticky when wet
It is poorly aerated
Soil texture is the roughness or smoothness of the soil.
It can be felt by touching soil.
Exercise
1. Name three types of soil.
:) ::)
i) ii) iii) iii)
i) ii) iii) 2. Why is loam soil said to be good for crop growing?
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 2. Why is loam soil said to be good for crop growing? 3. Which type of soil is difficult for plough and why? 4. Which type of soil is used for modelling? 5. Name the best soil for crop growing.
 Why is loam soil said to be good for crop growing? Which type of soil is difficult for plough and why? Which type of soil is used for modelling? Name the best soil for crop growing. Circle the odd man out:
 2. Why is loam soil said to be good for crop growing? 3. Which type of soil is difficult for plough and why? 4. Which type of soil is used for modelling? 5. Name the best soil for crop growing. 6. Circle the odd man out: Clay humus sand loam

10. Mention the types of soil shown below.

		•••	
	A	В	С
A			
B			
С			

Tuesday 31st March 2020

Uses of soil to people

- Loam soil used for growing crops.
- Soil is used for building.
- Clay soil is used for modelling or pottery.
- Sand soil is used for making glasses.

Other uses of soil to plants and animals

- Soil supports plant growth.
- Soil acts as a home of some animals e.g. earthworms, porcupines, moles

Soil profile

What is soil profile?

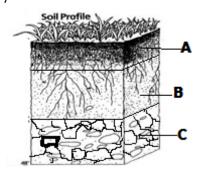
Soil profile is the vertical arrangement of soil layers.

Where can one easily see the different soil layers?

- When digging a pit latrine.
- On a road side cutting.
- > On a railway line cutting.
- When digging a compost pit.

Layers of soil

- a) Top soil
- b) Sub soil
- c) Parent rock



Top soil supports plant growth because it has a lot of humus.

Sub soil and parent rocks do not support plant growth because they have no humus.

1. Give any two uses of soil i) _____ ii) 2. Name two examples of living organisms found in soil _____ ii) _____ i) ____ In which way are the living organisms found in soil useful? 3. 4. What do you understand by the term soil profile? 5. Which layer of soil supports crop growing? How best can you see soil layers? 6. 7. What is the use of earth worms in soil? Which type of soil is used for building a house? 8. 9. Which term do we give to the arrangement of soil layers from top to bottom levels?

Wednesday 1st April 2020

Soil erosion

Exercise

Soil erosion is the movement of top soil by its agents.

Agents of soil erosion

- 1. flowing water
- 2. Wind
- 3. Animals

Causes of soil erosion

- Over stocking or over grazing
- Bush burning
- Over cultivation
- Deforestation

Dangers of soil erosion

- It leads to soil infertility.
- It destroys crops.
- It causes silting of wells and streams.

Ways of controlling soil erosion

- By mulching
- By terracing hilly areas
- By contour ploughing (digging across the hill not downwards)
- By practising crop rotation
- By planting cover crops

Exercise

1.	What is soil erosion?	
2.	Agents of soil erosion are things that carry soil. Name any	three c
them;		
i)	ii)iii)	
3.	Give four causes of soil erosion	
	ii)	
	iv)	
4.	How does clearing away grass and trees cause soil erosion?	
	Mention two dangers of soil erosion	
ii)		
6.	Suggest four ways of reducing the dangers of soil erosion.	
	ii)	
	iv)	
7.	What is crop rotation?	
8.	How does mulching reduce soil erosion?	
	Thursday 2nd April 2020	
LLINGS	S:	
ches, m	oisture, coffee husks, plant materials	

Mulching is the covering of top soil with dry plant materials. **Examples of mulches**

Mulches are materials used to cover top soil in a garden.

dry grass, coffee, husks, wood shavings, banana leaves

Advantages of mulching

- Mulching reduces soil erosion.
- Mulching makes soil fertile. (when mulches decay or rot)
- It keeps moisture in the soil.
- Mulching reduces growth of weeds.

Disadvantages of mulching

- Mulches can be a fire hazard
- Mulching is tiresome
- Mulches hide crop pests

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-	~ I	•	-	-

1.		What is mulching?
2.		Name three mulching materials
i)_		ii)iii)
3.		Why is it advisable to use dry plant materials as mulches?
4 .		Identify any two reasons why farmers mulch their gardens.
	i)	
	ii)	
5.		Mention any one disadvantage of mulching.
-		Friday 3rd April 2020

Changes in our environment Kinds of changes

- 1. Natural changes
- 2. Man-made changes

These are changes that happen on their own.

Examples of natural changes

- Change in weather.
- Change in day and night.
- Change in growth of animals and plants.
- Changes in seasons.

Causes of natural changes in the environment are;

- floods
- drought
- earth quakes
- hail stones
- land slides
- storms
- lightning and thunder

Effects of natural changes

- Some changes create hunger.
- Some changes destroy homes and property.
- Animals and plants can die.
- Some changes lead to soil erosion
- Some changes force people to migrate.
- Some changes lead to spread of diseases.

	Mention any three examples of t		
	ii)		
	Identify any four causes of nature	_	
) _ '''	ii) iv) _		
	.Write short notes about the follow		
	Migration	J,	
b	o) Soil erosion		
_	State two dangers of natural cha	•	
-			
-, _			
	Monda	v 4th An	rii 2020
٨	Monad Man- made changes	y 6th Ap	111 2020
	hese are changes which are brou	ıght abou	t by human activities.
E	xamples of human activities that	bring cha	
	Construction of roads	-	Overstocking Making bricks
	Construction of roads Construction of buildings Deforestation	- - -	Making bricks
	Construction of buildings Deforestation Destroying wetlands	-	Making bricks Burning bricks Poor disposal of wastes
	Construction of buildings Deforestation	-	Making bricks Burning bricks Poor disposal of wastes
	Construction of buildings Deforestation Destroying wetlands Bush burning	-	Making bricks Burning bricks Poor disposal of wastes
V	Construction of buildings Deforestation Destroying wetlands	-	Making bricks Burning bricks Poor disposal of wastes
V	Construction of buildings Deforestation Destroying wetlands Bush burning Vays of managing changes - By planting trees By protecting wetlands.	-	Making bricks Burning bricks Poor disposal of wastes
V	Construction of buildings Deforestation Destroying wetlands Bush burning Vays of managing changes - By planting trees By protecting wetlands By practising good farming meth	- - - nods.	Making bricks Burning bricks Poor disposal of wastes Poor methods of farmin
V	Construction of buildings Deforestation Destroying wetlands Bush burning Vays of managing changes - By planting trees By protecting wetlands By practising good farming methors of the second conductors of the second	- - - nods.	Making bricks Burning bricks Poor disposal of wastes Poor methods of farmin
V	Construction of buildings Deforestation Destroying wetlands Bush burning Vays of managing changes - By planting trees By protecting wetlands By practising good farming methers - By putting lightning conductors of the settling in valleys.	- - - nods.	Making bricks Burning bricks Poor disposal of wastes Poor methods of farmin

3.	State three examples of activities that cause man-made
chang	
i)	ii)
4.	
5 .	In which way is bush burning a danger to the environment?
6.	How can brick making lead to the spread of malaria?
7.	Why is poor disposal of wastes a danger to the environment?
Λ:-	Tuesday, 7th April 2020

Air

What is air?

Air is a mixture of gases.

Components of air

Nitrogen Carbon dioxide

Oxygen Rare gases

Examples of rare gases

Argon, Neon, Helium, krypton, xenon

Percentages of gases in the atmosphere

1. Nitrogen - 78%

3. Carbon dioxide – 0.03%

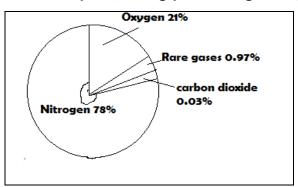
2. Oxygen – 21%

4. Rare gases – 0.97%

Note: nitrogen has the highest percentage.

Carbon dioxide occupies the least or lowest percentage in atmosphere.

Graph showing percentages of gases in the atmosphere



1.	Define the term air.
2 .	Mention any four components of air.
i) _	ii)
3.	Which component of air occupies the largest percentage in the atmosphere?
4.	Name the part of air that occupies the least percentage.
5 .	Which part of air is used for respiration?
6.	Why is carbon dioxide used in fire extinguishers?
7 .	Give one reason why oxygen is not used in fire extinguishers.

8. Identify one local game played using air.9. Differentiate between air and wind.

Wednesday, 8th April 2020

Uses of air

- Air inflates balloons.
- Air is put in car tyres.

Uses of Nitrogen

- Nitrogen is used in electric bulbs.
- Used by legumes to make plant proteins.
- Used in the storage of drugs.

Uses of oxygen

- ✓ Oxygen is used for respiration
- ✓ Oxygen supports germination
- ✓ Oxygen supports burning

Uses of Carbon dioxide

- -Used by plants to make food.
- -Used in fire extinguishers to put out fire.
- -Used in preserving bottled drinks.

Uses of rare gases/inert or noble gases

- Argon and neon are used in electric bulbs.
- They are used in neon signs posts.

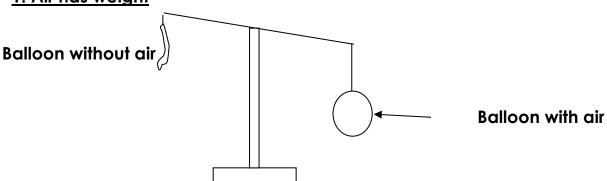
- 1. Which part of air burns food in our body?
- 2. Why is carbon dioxide used in the preservation of food and drinks?

- 3. Give a reason why carbon dioxide is used in fire extinguishers?
- 4. What is the use of fire extinguishers?
- 5. How is burning and germination similar?
- 6. Rare gases don't take part in any chemical reaction. How are they useful?

Thursday 9th April 2020

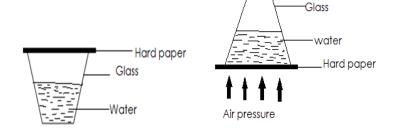
PROPERTIES OF AIR

1. Air has weight



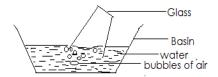
NB: The balloon with air goes down because air has weight.

2. Air exerts pressure



NOTE: When you turn the glass upside down, the hard paper does not fall off because air pressure pushes it up. When taking a drink e.g. soda using a straw, the pressure pushes the drink up the straw.

3. Air occupies space



- Air bubbles are seen escaping representing air from the glass.
- Air can be compressed when air enters balloon, it swells. This shows that air occupies space.
 - We are able to pump air in tyres because air occupies space.

4. Air can be compressed

Compressed air is used in car tyres to support the weight of the car.

It is also used in balls, balloons, floaters and

Compressed air in a ball	Compressed air in a tyre

Uses of carbon dioxide

i)Carbon dioxide used in fire extinguishers to put out fire.

A picture of a fire extinguisher



Places where we find fire extinguishers

1. schools

3. banks

2. hospitals

4. hotels

5	Vehicles	6	fuel stations
J.	4 GLIICIG3	0.	1001210110112

ii) Carbon dioxide is used to preserve bottled drinks like soda, beer and tinned food.



Name the component of air that supports burning.
Which component of air is used in fire extinguishers to put out fire?
State four properties of air.
ii)
iv)
Okello blew air into a balloon and it swole. Which property of air
Which part of air is used to preserve drinks?
Name two places where we can find fire extinguishers.
ii)
Why are some fire extinguishers painted with bright colours?

Tuesday 14th April 2020

Light and the sun

- The Sun is a very big star that shines in the sky during day.
- The sun is the main natural source of light.

Sources of light

- 1. Natural sources of light.
- 2. Artificial sources of light

Natural sources of light.

These are objects which produce their own light in nature

Examples of natural sources of light

The sun, stars, fire flies, erupting volcanoes and glow worms.

The moon doesn't produce light on its own but reflects light from the sun.

Artificial sources of light

These are sources of light which are made by people.

Examples of Artificial sources of light

Torches, burning candles, bulbs, lamps, fire flames.

Uses of the sun

- Heat from the sun dries wet clothes.
- Sunlight enables the skin to make vitamin D
- It provides us with light.
- Sun's heat kills some bacterial infections.
- It dries harvested seeds before storing them.
- The sun gives us solar energy.

Dangers of the sun

- Too much sunshine causes drought
- Too much sunshine spoils eyes when you look at the sun directly.
- Too much sunshine dries water sources

- Too much sunshine destroys crops in a garden
- Too much sunshine makes us hot and thirsty

1.	What is the main source of light in our environment?
2.	Give any three sources of light
i)	ii) iii)
3.	Why is the moon not regarded as a source of light?
4.	Mention two artificial sources of light
i)	ii)
5 .	In which two ways is the sun useful in our sub-county?
i)	
ii)	
	State any two dangers of too much sunshine to the people o
Naka	wa Division
i)	
ii)	
7.	Name the nutrient made by our skin using early morning
sunsh	ine