

PRIMARY FOUR SOCIAL STUDIES

TERM II – 2020

TOPIC –VEGETATION IN OUR DISTRICT

Vegetation is the plant cover of an area.

TYPES OF VEGETATION

- Natural vegetation
- Plantation vegetation

Natural vegetation is the plant cover of an area that grows on its own

Examples: bushes, swamps, shrubs, savanna

Natural

Plantation vegetation/ planted vegetation

The plant covers of an area that is grown by man.

Types of natural vegetation.

- Equatorial vegetation (Tropical rain forests.)
- Savanna vegetation
- Semi – desert
- Mountain vegetation
- Swamps.

Examples of trees under natural forests.

- Muvule (Troika)
- Rose wood
- Nkago
- Musizi
- Ebony
- African walnut

Natural forests provide people with hard wood timber

Things made from hard- wood.

- Bed
- Cup boards
- Tables
- Chairs
- Doors etc

SAVANNA VEGETATION.

- This type of vegetation covers the largest part of Uganda.
- It is subdivided in to savanna grass land and savanna wood land.

Examples of trees growing under planted forests.

- Cyprus
- Eucalyptus
- Pines
- Spruce
- Cypress
- Fig trees
- Conifers

Products made from soft wood (Trees from planted forests produce soft wood)

- Ply wood
- Match boxes
- Papers
- Pencils
- Some rlers
- Furniture

Examples of natural forests

- Mabira } biggest natural forest
- Budongo }
- Bugoma }
- Malabigabo
- Bwindi impenetrable.

Examples of planted forests.

- Lendu – biggest planted forst.
- Magamaga
- Mafuga
- Nyabyeya
- Bugamba

Importance of forests to man

- They are sources of timber
- They are sources of wood fuel.
- They attract rain formation
- They attract tourists
- They are a habitat for wild life.
- They are used for scientific study and research
- They are sources of herbs.
- They help in controlling soil erosion.

REASONS WHY PEOPLE CUT DOWN TREES.

- To get land for farming, industrialization road construction e.t.c
- To get wood fuel.
- To get timber
- To get herbal medicine.

Human activities which affect the vegetation

- Deforestation
- Bush burning
- Over grazing
- Uncontrolled cultivation
- Un controlled lumbering

Problems facing forests.

- Wild fires
- Encroachment on their land.
- Defforestation

Ways of conserving forests.

- Afforestation
- Re- afforestation
- Practicing Agro-forestry
- Enforcing laws against deforestation
- Gazetting land for forest.
- Massive sensitization of people on uses of forests.

TOPICAL QUESTIONS.

TERM II 2020

1. What do you understand by the term vegetation?

2. Nam

any two examples of vegetation.

i) _____

ii) _____

3. Name the two types of vegetation.

i) _____

ii) _____

4. Name the two types of forest.

i) _____

ii) _____

5. State any two products of hard wood.

i) _____

ii) _____

6. Give two examples of trees that grow in natural forests.

i) _____

ii) _____

7. Name any two planted forests in Uganda.

i) _____

ii) _____

8. Write down three things that are made from timber.

i) _____

ii) _____

iii) _____

9. Name any two examples of bad people who hide in the forests.

i) _____

ii) _____

10. Write any two examples of common grass.

i) _____

ii) _____

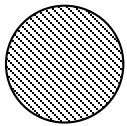
LESSON 1

TOPIC : FRACTIONS

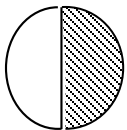
SUBTOPIC : Revision of fractions (lower work)

CONTENT : Definition:
A fraction is a part of a whole.

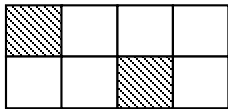
Naming and shading fractions and writing in words.



1 a whole

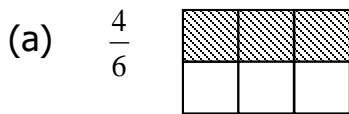


$\frac{1}{2}$ a half



$\frac{2}{8}$ Two eights

Shade these fractions.



LESSON 2

TOPIC : FRACTIONS

SUBTOPIC : Finding equivalent fractions

CONTENT : How to get equivalent fractions.
- We can use the knowledge of multiples.

Examples: $\frac{2}{3}$

$$\frac{2}{3} = \frac{2}{3} \times \frac{2}{2} = \frac{4}{6},$$

$$\frac{2}{3} = \frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{2}{3} = \frac{2}{3} \times \frac{3}{3} = \frac{6}{9},$$

$$\therefore \frac{2}{3} = \left\{ \frac{2}{3} \times \frac{4}{6}, \frac{6}{9}, \frac{8}{12}, \frac{10}{15} \dots \right\}$$

ACTIVITY: List the first equivalent fractions for:

(a) $\frac{1}{3}$ (b) $\frac{2}{5}$ (c) $\frac{1}{2}$ (d) $\frac{1}{4}$ (e) $\frac{4}{7}$

LESSON 3

TOPIC : FRACTIONS

SUBTOPIC : Equivalent fractions

CONTENT : Finding the missing part of a fraction

Example:

(a) $\frac{1}{2} = \frac{\square}{6}$ $\therefore \frac{1}{2} = \frac{3}{6}$	$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$ $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$
(b) $\frac{3}{5} = \frac{\square}{20}$ $\therefore \frac{3}{5} = \frac{12}{20}$	$\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$ $\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$ $\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$

LESSON 4

TOPIC : FRACTIONS

SUBTOPIC : Reducing fractions

CONTENT : Reduce $\frac{6}{12}$ to its lowest term.

Example:

(a) $\frac{6}{12} \div \frac{2}{2} = \frac{3}{6}$
 $\frac{3}{6} \div \frac{3}{3} = \frac{1}{2}$
 $\therefore \frac{6}{12} = \frac{1}{2}$

(b) Write $\frac{3}{9}$ to its lowest terms (By using the GCF / HCF)

$$\frac{3}{9} \div \frac{3}{3} = \frac{1}{3}$$

$$F_3 = \{ 1, \textcircled{3} \}$$

$$F_9 = \{ 1, \textcircled{3}, 9 \}$$

$$\text{H.C.F} = 3$$

LESSON 5

TOPIC : FRACTIONS

SUBTOPIC : Comparing fractions without a number line

CONTENT :

(a) Example: Which is greater $\frac{1}{3}$ or $\frac{1}{2}$?

$$\frac{1}{2} = \frac{2}{4}, \frac{3}{6}, \frac{4}{8} \dots\dots\dots$$

$$\frac{1}{3} = \frac{2}{6}, \frac{3}{9}, \frac{4}{12} \dots\dots\dots$$

$\therefore \frac{1}{2}$ is greater than $\frac{1}{3}$

LESSON 6

TOPIC: FRACTIONS

SUBTOPIC : Ordering fractions

CONTENT : Arranging fractions starting with the largest.

Example 1

(i) $\frac{1}{2}, \frac{2}{3}, \frac{1}{6}$

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} \dots\dots\dots$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} \dots\dots\dots$$

$$\frac{1}{6} = \frac{2}{12} = \frac{3}{18} \dots\dots\dots$$

$\therefore \frac{1}{2}, \frac{2}{3}, \frac{1}{6}$ starting from the biggest is $\frac{2}{3}, \frac{1}{2}, \frac{1}{6}$

Example 2

Arrange: $\frac{1}{3}, \frac{1}{2}, \frac{1}{5}$ starting with the smallest.

$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21} = \frac{8}{24} = \frac{9}{27} = \frac{10}{30}$$

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14} = \frac{10}{20} = \frac{13}{26} = \frac{15}{30}$$

$$\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20} = \frac{5}{25} = \frac{6}{30} = \frac{7}{35}$$

$\therefore \frac{1}{3}, \frac{1}{2}, \frac{1}{5}$ from the smallest is $\frac{1}{5}, \frac{1}{3}, \frac{1}{2}$

LESSON 7

TOPIC : FRACTIONS

SUBTOPIC : Operation on fractions

CONTENT : Addition of fractions with the same denominators

Example: 1

$$\frac{1}{5} + \frac{2}{5} = \frac{1+2}{5} = \frac{3}{5}$$

Example II

$$\frac{4}{12} + \frac{3}{12} = \frac{4+3}{12} = \frac{7}{12}$$

ACTIVITY: Exercise 5g page 87

LESSON 8

TOPIC : FRACTIONS

SUBTOPIC : Addition of fractions with the same denominator in word problem.

CONTENT : Jesca dug $\frac{1}{6}$ of the garden and Mary dug $\frac{4}{6}$ of the garden. What part of the garden was dug?

Jesca dug $\frac{1}{6}$

Mary dug $\frac{4}{6}$ so $\frac{1}{6} + \frac{4}{6} = \frac{1+4}{6} = \frac{5}{6}$

LESSON 9

TOPIC : FRACTIONS

SUBTOPIC : Subtraction of fractions with the same denominators.

CONTENT : Example 1:

$$\frac{3}{3} - \frac{1}{3} = \frac{3-1}{3} = \underline{\underline{\frac{2}{3}}}$$

Example II

$$\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \underline{\underline{\frac{3}{7}}}$$

LESSON 10

TOPIC : FRACTIONS

SUBTOPIC : Subtraction of fractions with the same denominators in word problem.

CONTENT : Example 1: Subtraction $\frac{2}{7}$ from $\frac{5}{7}$

$$\frac{5}{7} - \frac{2}{7} = \frac{5-2}{7} = \underline{\underline{\frac{3}{7}}}$$

Example 2

Andrew had $\frac{7}{9}$ of a cake, he ate $\frac{5}{9}$ of it. What fraction remained?

Andrew had $\frac{7}{9}$ he ate $\frac{5}{9}$

$$\therefore \frac{7}{9} - \frac{5}{9} = \frac{7-5}{9} = \frac{2}{9}$$

LESSON 11

TOPIC : FRACTIONS

SUBTOPIC : Addition of fractions with different denominators

CONTENT : Example 1

Add: $\frac{1}{2} + \frac{1}{3}$

Using equivalent fractions

$$\frac{1}{2} = \frac{2}{4} = \left(\frac{3}{6}\right) = \frac{4}{8} = \frac{5}{10} \dots\dots\dots$$

$$\frac{1}{3} = \left(\frac{2}{6}\right) = \frac{3}{9} = \frac{4}{12}$$

$$\frac{1}{3} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$$

LESSON 12

TOPIC : FRACTION

SUBTOPIC : Subtraction of fractions with different denominators.

CONTENT : Example 1

Subtraction of $\frac{3}{4} - \frac{2}{3}$

Using equivalent fractions.

$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20}, \dots\dots\dots$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$$

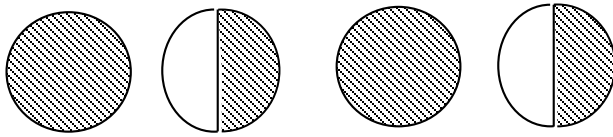
$$\frac{9}{12} + \frac{8}{12} = \frac{9+8}{12} = \frac{17}{12}$$

LESSON 13

TOPIC : FRACTIONS

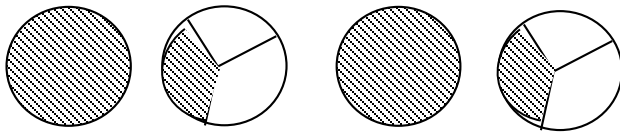
SUBTOPIC : Mixed fractions as improper fractions

CONTENT : Example 1:



$$1\frac{1}{2} = 1 + \frac{1}{2} = \frac{2}{2} + \frac{1}{2} = \frac{3}{2}$$

Example II



$$1\frac{1}{3} = 1 + \frac{1}{3} = \frac{3}{3} + \frac{1}{3} = \frac{4}{3}$$

LESSON 14

TOPIC : FRACTIONS

SUBTOPIC : Changing improper fractions to mixed fractions.

CONTENT : Example 1: Change $\frac{5}{2}$ to a mixed fraction.

Working 1

$$\begin{aligned} \frac{5}{2} \text{ is } & \frac{2}{2} + \frac{2}{2} + \frac{1}{2} \\ & = 1 + 1 + \frac{1}{2} \\ & = 2\frac{1}{2} \end{aligned}$$

Working 2

$$\begin{aligned} \frac{5}{2} & = 2\frac{5}{2} \\ & \quad \underline{-4} \\ & \quad \quad 1 \\ & = 2\frac{1}{2} \end{aligned}$$

LESSON 15

TOPIC : FRACTIONS

SUBTOPIC : Addition of mixed fractions with the same denominators.

CONTENT : Add: $1\frac{1}{3} + 4\frac{1}{3}$ to a mixed fraction.

$$\begin{aligned}\text{Re-arrange: } &= (1 + \frac{1}{3}) + (4 + \frac{1}{3}) \\ &= 1 + 4 + \frac{1}{3} + \frac{1}{3} \\ &= 5 + \frac{2}{3} \\ &= 5\frac{2}{3}\end{aligned}$$

LESSON 16

TOPIC: FRACTIONS

SUBTOPIC : Addition of fractions with the same denominators in word problem.

CONTENT : James bought $6\frac{1}{4}$ kg of meat on Monday and $7\frac{3}{4}$ kg on Tuesday.

How many kilograms did he buy altogether?

$$6\frac{1}{4}\text{ kg} + 7\frac{3}{4}\text{ kg.}$$

$$\begin{aligned}\text{Rearrange } &= (6 + \frac{1}{4}) + (7 + \frac{3}{4}) \\ &= 6 + 7 + \frac{1}{4} + \frac{3}{4} \\ &= 13 + \frac{4}{4} \\ &= 13 + 1 \\ &= \underline{14\text{kg.}}\end{aligned}$$

LESSON 17

TOPIC : FRACTIONS

SUBTOPIC : Subtraction of mixed fractions with the same denominators

CONTENT : Subtract $4\frac{3}{5} - 2\frac{1}{5}$.

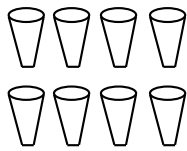
$$\begin{aligned}\text{Re-arrange } &= (4 + \frac{3}{5}) - (2 + \frac{1}{5}) \\ &= (4 - 2) + (\frac{3}{5} - \frac{1}{5}) \\ &= 2 + \frac{2}{5} \\ &= 2\frac{2}{5}\end{aligned}$$

LESSON 18

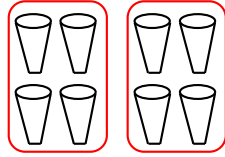
TOPIC: FRACTIONS

SUBTOPIC : Fraction of a group.

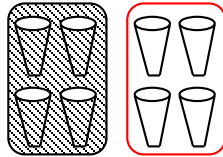
CONTENT : Example 1: What is $\frac{1}{2}$ of 8?



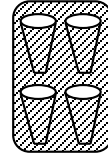
8 glasses



2 groups



$\frac{1}{2}$ shaded



$\frac{1}{2}$ of 8 = 4

LESSON 18

TOPIC : FRACTIONS

SUBTOPIC : Application of fractions

CONTENT : A man had 100 cows on his farm. He gave away $\frac{2}{5}$ to his wife and remained with the rest. How many cows did he give his wife?

$$\begin{aligned}\frac{2}{5} \times 100 &= 2 \times 20 \\ &= \underline{40 \text{ cows}}\end{aligned}$$

Find the number of cows he remained with

$$100 - 40 = \underline{60 \text{ cows.}}$$

Find the fraction that he remained with;

$$\begin{aligned}1 - \frac{2}{5} &= \frac{5}{5} - \frac{2}{5} = \frac{5-2}{5} \\ &= \frac{3}{5}\end{aligned}$$

LESSON 20

TOPIC : FRACTIONS

SUBTOPIC : Multiplication of fractions

CONTENT : **Multiply:**

$$\begin{aligned}\Rightarrow \frac{1}{2} \times \frac{1}{4} &= \frac{1}{8} \Rightarrow \frac{3}{4} \times \frac{2}{3} = \frac{6}{12} \\ \Rightarrow \frac{1}{4} \text{ of } \frac{1}{3} &\Rightarrow \frac{1}{10} \text{ of } \frac{5}{8} \\ \Rightarrow \frac{1}{4} \times \frac{1}{3} &= \frac{1}{12} \Rightarrow \frac{1}{10} \times \frac{5}{8} = \frac{5}{80}\end{aligned}$$

LESSON 21

TOPIC: FRACTIONS

SUBTOPIC : Reciprocals of given fractions

CONTENT : (i) The reciprocal of $\frac{1}{2}$ is 2

Example (ii) Find the reciprocal of $\frac{2}{3}$.

Let the reciprocal be m

$$m \times \frac{2}{3} = 1$$

$$\cancel{3} \times \frac{2}{\cancel{3}} m = 1 \times 3$$

$$2m = 3$$

$$m = \underline{\underline{\frac{3}{2}}}$$

NOTE: The product of a number and its reciprocal is 1

LESSON 22

TOPIC: FRACTIONS

SUBTOPIC : Writing decimal fractions in words.

CONTENT : Example 1

Write 0.2 in words

0.2

└ Tenth

0.2 is either two tenths

Or zero point two

LESSON 23

TOPIC : FRACTIONS

SUBTOPIC : Writing fractions in decimals

CONTENT : Example 1

9. In a village of 120 people. $\frac{1}{3}$ are male and the rest are female.

a) How many male are in the village?

b) Find the number of female in the village.

c) Work out the fraction for females.

10. Multiply: $\frac{4}{7} \times \frac{1}{3}$

11. Use $<$, $>$ or $=$ to complete the statements below.

a) $\frac{1}{4}$ _____ $\frac{1}{3}$

b) $\frac{1}{2}$ _____ $\frac{1}{7}$

b) $\frac{3}{5}$ _____ $\frac{2}{5}$

12. Arrange $\frac{2}{3}$, $\frac{1}{2}$, $\frac{1}{5}$ in ascending order

13. What is the un shaded fraction.

14. Subtract $5\frac{2}{3} - 1\frac{1}{3}$

15. Kapere had $\frac{7}{9}$ of a pan cake, he ate $\frac{2}{9}$ of it. What fraction remained?

SCIENCE

OUR FOOD

VOCABULARY

1. Food
2. hunger
3. healthy
4. habit
5. hospitality
6. happiness

Food is anything we eat or drink to get energy, be healthy and build our bodies.

Sources of food

- Plants
- Animals

Places where we get food

- Gardens
- Markets
- Shops
- Forests and bushes
- Water bodies
- Granaries

Ways of getting food

- By harvesting
- By buying
- By hunting
- By fishing

Activity

1. Give any one source of food.

2. Why do we grow crops?

3. Name any one food we get from water bodies.

4. Give one way of getting food from water.

5. Name the food value we get from eating fish.

NUTRITION

Nutrition is the process by which organisms obtain food and uses it for growth and repair body cells.

Nutrition is also called feeding.

Uses of food to the body.

- i) Food provides energy to the body
- ii) Food keeps the body healthy
- iii) Food builds the body
- iv) Food provides warmth to the body.

Why we eat food

We eat food every day for the following reasons;

- i) Because we are hungry.
- ii) To be healthy
- iii) Because it is a habit
- iv) Because of hospitality
- v) Because of happiness.

Note: The above reasons are known as the 5Hs, that is,

- i) Hunger (because our stomachs feel empty)
- ii) Health (because we know that we need food and drink in order to live)
- iii) Habit (because it is the time of day when we normally out)
- iv) Happiness (because we enjoy eating certain foods)
- v) Hospitality (because we have guests and it is our custom to offer them food)

ACTIVITY

1. Briefly explain nutrition.

2. How is food useful in the body?

3. Why do people eat food?

4. How do people get food?

5. Write any two 5Hs in full.

(i) _____ (ii) _____

6. Name the food stuff obtained from water bodies.

VOCABULARY

- 1. Classes of food**
- 2. food values**
- 3. proteins**

Note: Go, Grow and Glow foods are known as the 3Gs, that is

- i) Go foods
- ii) Grow foods
- iii) Glow foods

Classes of food/food values:

Sorting sources

(Practical lesson on animal plant proteins)

They are;

- i) Proteins
- ii) Carbohydrates
- iii) Vitamins
- iv) Fats and oils (lipids)
- v) Minerals

PROTEINS

Uses;

These are body building food values.

- i) They make new cells in the body.
- ii) They repair worn out cells// replace worn out cells.

Sources of proteins

Animal proteins

- Beef
- Chicken
- Eggs
- Milk
- Fish
- Insects

Insect proteins

- grasshoppers
- white ants
- locusts

Plant proteins

- Beans
- Soya beans
- Cow peas
- Peas
- Ground nuts
- sim-sim
- sun-flower

ACTIVITY:

1. List down **any two** classes of food.
(i) _____ (ii) _____
2. How are proteins important to a sick person?

3. Identify **any two** examples of the following:
(i) Animal proteins (i) _____ (ii) _____
(ii) Plant proteins (ii) _____ (ii) _____
4. Why do we include foods rich in proteins to the diet of a pregnant mother?

5. Name the deficiency disease got due to lack of proteins in the diet.

CARBOHYDRATES

VOCABULARY

1. Carbohydrates
2. energy
3. source

Uses:

These are energy giving food values.
They provide energy to the body.

Sources of carbohydrates

- i) Maize
- ii) Millet
- iii) Cassava
- iv) Rice
- v) Sorghum
- vi) Sweet potatoes
- vii) Irish potatoes
- viii) Coco yams
- ix) Matooke
- x) Sugar cane
- xi) Honey
- xii) Bread
- xiii) Wheat

ACTIVITY:

1. How are carbohydrates useful to an athlete?

2. Identify any one example of foodstuff suitable for a footballer.

3. Why should people be encouraged to eat foods rich in carbohydrates?

4. Identify any three food stuffs rich in carbohydrates.

(i) _____

(ii) _____

(iii) _____

VITAMINS

VOCABULARY

1. Vitamins

2. immunity

3. source

- They are health giving foods:
- They increase body immunity

Types of vitamins

i) Vitamin A

vi) Vitamin E

ii) Vitamin B1

vii) Vitamin K

iii) Vitamin B2

iv) Vitamin C

v) Vitamin D

Uses of Vitamins

Vitamin/ mineral	Sources	Importance	Deficiency	Signs /symptoms
Vitamin A	i) Liver ii) Cheese iii) Butter iv) Margarine v) Milk vi) Eggs vii) Spinach viii) Carrots ix) Red palm oil	i) Increases resistance to diseases. ii) For good night vision	i) (night blindness)	i) Blurred objects ii) Poor eye sight iii) Reduced night vision.
Vitamin B1	i. Unpolished cereals ii. Beans iii. Groundnuts iv. Green vegetables v. Meat	i) For mental health ii) For proper growth	i) Beriberi disease	i) Poor growth ii) Paralysis iii) Forgetfulness iv) Lack of appetite v) Body weakness

	vi. Yeast			
Vitamin B2	i. Beans ii. Lean meat iii. Liver iv. Yeast v. Kidney vi. Groundnuts	i) For mental health ii) For proper growth	i) Pellagra	i) Body weakness ii) Poor growth
Vitamin C	i. Oranges ii. Lemons iii. Guavas iv. Tomatoes v. Mangoes vi. Pawpaw vii. Fresh green vegetables	i) For strong skin membranes	i) Scurvy	i) Bleeding of the gums ii) Poor healing of wounds iii) Reduced resistance to diseases. iv) Poor growth of the skin.
Vitamin D	i. Butter ii. Milk iii. Cheese iv. Egg York v. Liver vi. Fish liver oil	i) For absorption of calcium ii) For strong bones and teeth.	i) Rickets	i) Weak bones

ACTIVITY 1:

1. Give any one source of vitamin A.

2. Suggest one importance of Vitamin B to the body.

3. Identify the deficiency disease caused due to lack of vitamin B2 in the body.

4. Kato has poor night vision. Which deficiency disease is he suffering from?

5. Name the deficiency disease caused due to lack of Vitamin D in the body.

6. How is scurvy prevented in young children?

7. Kato's brother has a bleeding gum and poor healing of wounds. What deficiency disease is he suffering from?

8. Complete the table below.

Deficiency disease	Lack of
Scurvy	.....
.....	Vitamin D
Beri-beri	.....
.....	Night blindness

FATS AND OILS

VOCABULARY

1. source
2. Fats and oils
3. all sources of fats

- (iii) They are energy giving foods.
(iv) They are used by the body to produce heat.

Sources of fats and oils

- i) Milk
- ii) Butter
- iii) Cheese
- iv) Egg York
- v) Ground nuts
- vi) Margarine
- vii) Sunflower
- viii)Simsim

N.B. Fats are solid while oils are liquids at room temperature

MINERAL SALTS

VACABULARY

1. Sources
2. mineral salts
3. all examples of mineral salts.

Mineral salts are foods responsible for the proper growth of bones and teeth.

Use:

For proper growth of teeth and bones.

EXAMPLES OF MINERAL SALTS

- i) Iron
- ii) Calcium
- iii) Phosphorus
- iv) Iodine
- v) Sodium
- vi) Potassium
- vii) Magnesium

IRON:

Use: For making red blood cells.

Sources of Iron

- i) Meat
- ii) Green vegetables e.g. spinach
- iii) Liver
- iv) Beet root.

CALCIUM

- i) Beans
- ii) Milk
- iii) Millet
- iv) Green vegetables
- v) Dry fish

N.B. Phosphorus and calcium and magnesium also strengthen bones and teeth.

IODINE

Use:

For proper functioning of the thyroid gland.

Sources of Iodine:

- i) Sea fish
- ii) Iodised salt
- iii) Onion
- iv) garlic

ACTIVITY:

1. Give any two sources of fats and oils.
2. Identify any one example of a mineral salt.
3. How is iron important in the body?
4. Name the body mineral that enables our bones and teeth grow stronger.
5. Write down any one source of Iodine.

BALANCED DIET

VOCABULARY:

1. **Balanced diet**
2. **components**
3. **roughages**
4. **fibre**
5. **peristalsis**

A meal which has all food values in their right amounts.

Components of a balanced diet

- i) Proteins
- ii) Carbohydrates
- iii) Fats and oils
- iv) Vitamins
- v) Water
- vi) fibre.
- vii) Mineral salts.

WATER

Uses of water in the body

- i) Softens food during digestion
- ii) Dissolves digested food for transportation by blood.
- iii) Dissolves waste products for transportation to the excretory organs.
- iv) It cools the body
- v) Water dissolves medicine in the body.
- vi) It prevents constipation
- vii) It prevents dehydration
- viii) It bathes body cells

NB: Distilled water is not recommended for drinking because it lacks minerals.

- **Distilled** water can be made for drinking when you mix fruit juice.

Sources of water in the body.

- i. Drinking water directly.
- ii. Tea, porridge, milk.
- iii. Juice
- iv. Fruits e.g. mango, oranges and pineapples.
- v. Soup.

ACTIVITY:

1. Briefly explain a balanced diet.

2. Give **any three** components of a balanced diet.

(i) _____ (ii) _____

(iii) _____

3. How is water useful in the body?

4. Why is distilled water not recommended for drinking?

ROUGHAGES (FIBRE)

Roughages are plant fibres which can be digested

Use:

- i) Controls constipation
- ii) Facilitates peristalsis
- iii) It controls indigestion

NB: Peristalsis is the movement of food along the alimentary canal.

Sources of roughages

- i) Cereals
- ii) Vegetables
- iii) Fruits
- iv) Root tubers such as sweet potatoes, cassava
- v) Mushrooms

ACTIVITY:

- 1. State the importance of roughages in the diet.

- 2. Outline any two sources of roughages.
(i) _____ (ii) _____
- 3. Which digestive disorder is experienced due to lack of roughages in the body?

- 4. Briefly explain peristalsis.

- 5. How can distilled water be made good for drinking?

DEFICIENCY DISEASES

VOCABULARY

- 1. Marasmus**
- 2. Kwashiorkor**
- 3. Prevention**
- 4. Signs**
- 5. Anaemia**
- 6. Goitre**

- Diseases caused by lack of certain food values in the body.

1. KWASHIORKOR

- a) It is caused by lack of enough proteins in the diet.
- b) Signs of kwashiorkor

- i) Swollen belly
- ii) Swollen moon face
- iii) Swollen feet and hands.
- iv) Skin rash
- v) Brown hair

c) Prevention

Eat foods rich in proteins.

2. MARASMUS

a) Cause

It is caused by lack of enough carbohydrates in the diet.

b) Signs of marasmus

- i) Old man's face
- ii) Pot belly
- iii) Thin body
- iv) Always hungry
- v) Weaknesses
- vi) Wasted body muscles

c) Prevention

Eat food rich in carbohydrates.

ACTIVITY:

1. What are deficiency diseases?

2. State the cause of kwashiorkor.

3. Suggest one way of preventing kwashiorkor.

4. Name one deficiency disease caused due to lack of carbohydrates in the diet.

5. Identify one sign seen on a baby suffering from marasmus.

3. ANAEMIA – is the condition when the body lacks enough iron in it.

- i) It is caused by lack of enough iron in the diet.
- ii) It is prevented by eating foods rich in iron, like liver, eggs, cereals and kidney.

4. GOITRE

- i) It is caused by lack of enough iodine in the diet.
- ii) It is prevented by eating foods rich in iodine, like sea foods and iodised salt.

Signs of goitre

- (i) A swelling in the neck.

Activity:

- 1. Briefly explain the term anaemia.

- 2. What causes anaemia?

- 3. Mary has a swelling around the neck. Name the deficiency disease she is suffering from.

- 4. **Match the diseases to their cause.**

Disease	Cause
Marasmus	lack of proteins
Goitre	lack of carbohydrates
Kwashiorkor	lack of iron
Anaemia	lack of iodine

- a) Marasmus _____
- b) Goitre _____
- c) Kwashiorkor _____
- d) Anaemia _____

PROPER HANDLING OF FOOD

VOCABULARY:

- 1. Food handling**
- 2. contamination**
- 3. food contamination**
- 4. eating habits**
- 5. food preservation**
- 6. food security**

Handling of food in a way that prevents it from being contaminated.
Ways of proper handling of food.

- i) Wash hands before preparing food.
- ii) Wash hands before serving food.
- iii) Wash vegetables and fruits before eating them.
- iv) Prepare food in a clean place.
- v) Serve food in clean containers.

Importance of proper handling of food

- 1. It prevents food contamination
- 2. It preserves food for future use.
- 3. It protects the food from pests.

ACTIVITY:

- 1. Suggest **one** proper way of handling food.
-

- 2. Give **one** effect of improper handling of food.
-

- 3. Identify **any one** disease that can result from poor handling of food.
-

FOOD CONTAMINATION

(v) The making of food dirty.

(vi) When food gets exposed to dirt and germs.

Dangers of poor handling of food

- i) It spreads germs
- ii) It causes the food to go bad
- iii) It may cause food poisoning.

Ways food gets contaminated

- i) Serving food with dirty hands.
- ii) Serving food in dirty utensils.
- iii) Houseflies and cockroaches
- iv) Preparing food in a dirty environment.
- v) By dust falling on uncovered food.

ACTIVITY:

- 1. Briefly explain the term food contamination.
-

- 2. Suggest **one** way food gets contaminated.
-

- 3. Mention **one** danger of poor handling of food.
-

LESSON SIX:

GOOD EATING HABITS

- i) Wash hands before eating food.
- ii) Sit upright when eating food.
- iii) Chew food properly before swallowing.
- iv) Avoid talking while eating food.
- v) Chew food when the mouth is closed.

Bad eating habits

- i) Eating food with unwashed hands.
- ii) Bending/lying down while eating food.
- iii) Swallowing food before chewing it properly.
- iv) Chewing food with an open mouth.
- v) Putting big lumps in the mouth at one time.

Dangers of bad eating habits.

- i) Eating food with unwashed hands contaminates food and may lead to diarrhea.
- ii) Bending while eating food interferes with movement of food in the alimentary canal.
- iii) Swallowing food before proper chewing can lead to indigestion. It can also lead to choking.
- iv) Talking when food is in the mouth and spitting food on other people near you.
- v) Big lumps can lead to indigestion.

ACTIVITY:

1. Identify any two good eating habits.

(i) _____

(ii) _____

2. Give any two bad eating habits.

(i) _____

(ii) _____

3. Suggest **any two** dangers of bad eating habits.

(i) _____

(ii) _____

FOOD SECURITY

This is when a family / community has enough food for eating all year around.

Food security can be achieved through.

- a) Growing enough food.
- i) Proper storage of food.
- ii) Preservation of food.
- iii) Practicing proper farming methods.

Importance of food security

- i) The family has enough food to eat throughout the year.
- ii) It prevents deficiency diseases in the family.

NB: Excess food is dried and stores in granaries and silos for future use.

ACTIVITY:

1. Briefly explain food security.

2. State two ways we can achieve food security.

(i) _____

(ii) _____

3. Suggest one importance of food security.

4. Why should excess food be stored?

5. Name one domestic animal that depends on left-over food.

ENGLISH

Verbs and tenses

Verbs are action words or words that express an action.

Types of verbs include

- Regular verbs
- irregular verbs
- Helping verbs
- main verbs

Use of Helping verbs

Helping (Auxiliary) verbs are used to

- to form continuous, perfect, future tense
- to write question tags
- to write negatives
- to write interrogative sentences

Forming questions tags using Helping verbs

A question tag is a short question that comes at the end of a statement. We use it to turn a statement to question. There are two expected tags one with a NO and one with YES.

A statement can be of the following helping verbs

Verbs

is	do
was	does
are	did
were	am
has	shall
have	will
can	

A statement without a helping verb commonly takes “do”

1. A question tag is formed using a helping verb and pronoun in the statement.

Example:

Peter goes to school daily, doesn't he?

Your mother doesn't stay at home, does she?

2. When “has” is used as the main verb doesn't is used in the tags.

e.g. My father has four cars, doesn't he?

Mr. Mukasa has a good house, doesn't he?

In the above “has” has been used as main verb.

They have cut it, haven't they?

Mary has seen it, hasn't she?

3. If the main verb is negative, the question tag is negative.

e.g. These children are not obedient, are they?

We needn't go for lunch today, do we?

Note: need we? is wrong because need is a special verb which takes do or does and don't or doesn't.

4. If the main sentence is in positive then the question tag is a Negative.

e.g. You are early today, aren't you?

He is sick, isn't he?

However special helping verbs don't follow the rule i.e am, used to, shall, will, need and needn't.

Example

I am going with you, aren't I?

I am sick, aren't I?

I am not going with you, am I?

I am not sick, am I?

5. Shall / will

These are used to show politeness.

Examples

Let's sit down, shall we?

Let's go to town now, shall we?

Let me open the window please, shall I?

Get me that chair, will you?

Don't go there, will you?

Let him go please, will you?

6. Used to, takes (didn't / did)

e.g. We used to take lunch, didn't we?

We used to write on the floor, didn't we?

We used not to play in class, did we?

Using Helping verbs to form Negatives

For a sentence to be negative "Not" is used e.g.

Affirmative: John eats too much.

Negative: John doesn't eat too much.

Affirmative: She fought her sister yesterday.

Negative: She didn't fight her sister yesterday.

Affirmative: I was made to lie down.

Negative: I wasn't made to lie down.

Using helping verbs to form interrogatives

Affirmative: There are ten hens in the pen?

Negative: Are there ten hens in the pen?

Affirmative: He got a first grade.

Negative: Did he get a first grade?

Affirmative: Birds make nests.

Interrogative: Do birds make nests?

Affirmative: I have a nice pen?

Negative: Do I have a nice pen?

Activity 1

Underline the helping verbs in the following sentences.

1. The lion was chasing a cub.
2. He will be at school tomorrow.
3. She can climb trees using legs only.
4. Our exercise books are being marked.
5. They had been seeking for permission to go out.
6. I lost my pen last week.
7. John did the mistake himself.
8. The culprit will be stoned to death.
9. A mad man dreamt of dying.
10. We shall sing the National Anthem tomorrow.

Activity: 2

Supply the suitable question tag to the following statements

1. Our teachers are marking now.

2. Lets work hard together.

3. Our mother wont dress badly today.

4. Lets get answers for all these questions please.

5. Joseph begs for pancakes every day.

6. I am not a fool.

7. We needn't have done it.

8. I am not very clever.

Activity: 3

Change the following statements to negative

1. John has got nice shoes.

2. The lion chased a passer-by on Sunday.

3. The wild animals mostly feed on grass

4. People die every day.

5. She had gone to church.

6. The python swallowed the whole cow.

7. We might come and see you.

8. I can try to fight Ggolola Moses.

Activity:

Make the following sentences into interrogative

1. The hens bite using beaks.

2. A bat can see at night.

3. She will find us in Nateete

4. The guest might be late for the function.

5. Most animals have four legs.

6. The butcher had cheated the customer.

7. You need to bring my shoes today.

TENSES

A tense is a change of a verb according to time. i.e. verbs change depending on the

Examples

Regular verbs which take "ed"

Present simple	Past simple	Past perfect
walk	walked	walked
wait	waited	waited
work	.....	.....
stop	stopped	stopped
add	.....	.....
allow	.....	.....
slap	.....	.....
hang	.....	.....
laugh	.....	.....
talk	talked	talked
look	looked	looked
smile	smiled	smiled
agree	agreed	agreed
Add		

Regular verbs that take “d”

Present simple	Past simple	Past perfect
believe	believe	believed
deceive	.....	deceived
receive	.....	.....
arrive	.....	.....
change	.....	arrived
complete	completed	.....
compare	.....	.....
compose	.....	.....
care	.....	cared
Add		

Regular verbs that take “t”

Present simple	Past simple	Past perfect
mean	.....	.....
spoil	spoilt	spoilt
dream	.....	.....
learn	.....	.....
leap	leapt	leapt
deal	.....	.....
creep	crept	crept
Add		

Irregular verbs

These are verbs which don't take "d" "ed" or "t"

Present simple	Past simple	Past perfect
sleep	slept	slept
sweep	.....	.....
feel	.....	.....
creep	.....	.....
kneel	.....	.....
weep	wept	wept
Add		

Irregular verbs that change completely.

Present simple	Past simple	Past perfect
tear	tore	torn
go	went	gone
break	.....	.....
give	.....	.....
do	.....	.....
see	saw	seen
know	knew	know
run	.....	.....
beat	.....	.....
bite	.....	.....
wear	.....	.....
choose	choose	chosen
feed	.....	.....

Irregular verbs which change vowel “i” to “u”

Present simple	Past simple	Past perfect
dig	dug	dug
sting	stung	stung
stick	.....	.....
cling	.....	.....
wring	wrung	.....
Add more		

Irregular verbs that change completely

Present simple	Past simple	Past perfect
sit	sat	sat
find	found	.....
shine	.....	.....
wind	.....	.....
spit	spat	spat
.....
.....
.....
Add more		

Irregular verbs which don't have change

Present simple	Past simple	Past perfect
put	put	put
cut
read
hit
cast
shut
cost
hurt
spilt
knit
Add more		

Activity

Complete the sentences below with correct verbs

1. Atim the school bell. (ring)
2. The girls their work in time. (do)
3. Namuli all her sweets at once. (eat)
4. Awori from his home to the school. (ride)
5. The instructor us military skills. (teach)
6. The man was in the car accident. (hurt)
7. That cup was their yesterday. (put)

THE PRESENT TENSE

Includes

- present simple
- present continuous
- present perfect
- present perfect continuous

THE PRESENT TENSE

In this tense actions happen, some times, daily, often, always, usually, rarely, seldom, and every day.

Guidelines

a) I }
We } do
You }
They }

b) She }
He } does
It }

- i) In a above don't take verbs with "s" "es" or "ies"
- ii) In b above you add "s" "es" or "ies" to the main verb.

Example

1. I do my home work every day. (do)
2. Suzan breaks cups every day. (break)
3. It often rains at night in our villages. (rain)

Activity

1. She to me once a week. (write)
2. I maths to science. (prefer)
3. Mariam in her garden every Saturday. (dig)
4. We reading once in while. (study)
5. Tailors usually clothes. (sew)

6. Cats mice at night. (catch)
7. That boy pencils every day. (lose)
8. A shop keeper in his shop every day. (work)

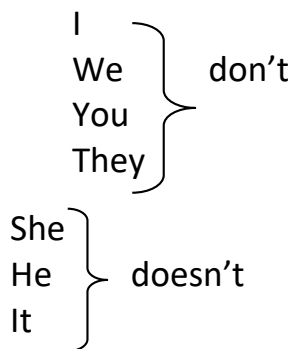
Negative of the present simple

Negative sentences are sentences which don't state facts.

Example

1. She always marks our books.
She doesn't always mark our books.
2. The sun rises from the east.
The sun doesn't rise from the east.
3. We always read newspapers.
We don't always read newspaper.

Note:



Activity:

Change the following sentences to negative

1. He writes letters every day.

2. The moon appears at night.

3. The python swallowed the whole cow.

4. We bring books to school.

5. The teachers sometimes beat us.

6. She lights the candles in the main hall.
