

ICT

Explain the following terms (giving ten examples of each)

- a) Web browser (giving five examples of each)
- b) Search engine (giving five examples of each)
- c) Ergonomics (giving examples of practices carried out to attain this)
- d) Back end booting
- e) Front end booting

AGRICULTURE

- a) Establish and manage a tuber crop at home (**Irish potato**). **NB: Report back at school with a tuber crop potted in a plastic container fully grown and well managed.**
- b) Outline the management practices that you carried on the tuber during its growth and in each case give the reason why you carried it out.

FINE ART

Project Work

The community leaders have sighted a need to get rid of the waste materials especially plastics in the community.

TASK: As a learner who has been acquired skills of re-using waste materials through making crafts works, make a mosaic using the common waste materials in your environment with a very good finishing.

CRE

Explain the importance of courtship period.

SWAHILI

Wanajamii ya kalelo hawashughulikii michezo. Kwa sababu hiyo wamekosa fursa nyingi za kimaendeleo ya jamii, kadhalika, wamesumbuliwa kiafya.

MAAGIZO:

- a) Fanya utafiti na utambue umuhimu wa michezo kwa maisha ya binadamu. (Importance of games and sports to people)
- b) Ungekuwa kocha wa kandanda ungefanya nini ili kuwafanya wachezaji wako kuejoukana na ajali? (If you were a coach, what could you have done to prevent your players from getting accidents?)

HISTORY AND POLITICAL EDUCATION

A secondary school in Uganda is not inclined to any particular religion. The School Parents and Teachers' Association is pushing the school to support students from different religious backgrounds in the school. The head prefect suggests that the best way to do this is by installing a prefect in charge of religion.

Support material: a Catechist ordaining a student

TASK: Having been chosen as the religious prefect, prepare a letter to the Headteacher explaining the different religious beliefs and how they can be supported in the school.

MATHEMATICS

ITEM 1: The Ministry of Education and Sports instructed all the school Headteachers in Uganda to give details about the number of their students by the end of this month so that they can easily budget for every child undergoing the lower secondary curriculum. The Headteacher during his survey found out that: 20% of the students in a school are males and there are 7200 students altogether.

TASK: As a learner of mathematics, help the Headteacher to know;

- The percentage of males in the school
- How many more females than males are in the school?
- If 25% of the school female students are day scholars, how many female students are in boarding?
- If all male students are in boarding and 3 students share a decker, how many deckers are needed to accommodate all the female students?

ITEM 2: During the course of study in your class, your Mathematics teacher talked of the terms that make up mappings and relations. Now your father has requested you to clearly explain to him the following terms,

- (i) Domain
(ii) Range
(iii) A function
- Set A maps on to set B by the operation “Divide by 2 add 3”. If set $A = \{4, 8, 12, 16, 20, 24\}$
 - Help your Mr. Jimmy to list the elements of Set B.
 - Find the ordered pairs
 - Draw the graph of the relation
- If $g(x) = qx + 3$ and $g(5) = 23$, find the value of;
 - q
 - $g(0)$
 - $g(-5)$

ITEM 3: During COVID-19, the ministry of health conducted a research and found out the active cases in some districts in Uganda. The results were recorded in the table below.

District	Buikwe	Elegu	Busia	Mutukula	Malaba
Active cases	24	350	150	120	56

Task: Advise the Ministry of health on how you can represent the above information on a pie-chart.

PHYSICS

- Joan complained about carrying a jerrycan of water from the tap to the dormitory that she didn't have energy.
 - Briefly explain what “energy” means.
 - Explain the different types of energy that exist and state any two examples for each.
- An object is pulled through a distance of 2m by a force of 55N on the first day. The same object is again pulled through a distance of 20cm by a force of 150N on the second day. Calculate the,
 - First day
 - Second day
 - On which day was much work done? And why?

GEOGRAPHY (Answer all)

ITEM: East Africa has many types of vegetation covers such as equatorial rainforests, savannah vegetation and semi-desert vegetation. The vegetation covers benefit the people of East Africa in many ways. However, there are also some disadvantages of vegetation covers to the people of East Africa.

Task:

- Make a presentation to your class about the characteristics of equatorial rainforests.
- Make a write up on the contribution of vegetation covers to the people of Uganda.

LUGANDA

Omwana kuva buto ngalina okulabirirwa obulungi okusobola okukula nga tawanyiziddwa ndwadde nokweyagaza omuzaddomuzade

Laga endwadde ezirabika nga zeziruma omwana ali Ku ndiri mu kiragibwa ekyo atenga zitera nokukwata abaana



- Bintu ki gwe byolaba nga bye biviridde endwadde ezo zoolaze waggulu
- Omuzadde atasobola Ku twala mwana mu ddwaliro nnyonnyola eddagala egganda lya yinza okuwa omwana endwadde ezimuluma ne ziwona
- Laga ebintu omuzadde byalina okukola okwewaza abaana okufuna endwadde

BIOLOGY

Identify an area affected by erosion in your community and:

- Name the type of erosion
- State the causes of erosion
- Suggest what can be done to overcome that form of erosion.

CHEMISTRY

For over 5 billion years, earth has had water existing in three physical states. The composition of water on earth has remained constant irrespective of the fact that water is consumed by organisms for its various uses.

TASK: Comment about the above statement as a student of chemistry.

Wako beverages is planning to introduce a new juice product on the market and also register it with the Uganda registration services bureau (URSB), but the owner has found it necessary to first conduct a market survey in order to establish the response of customers.

Task:

- Given any five challenges they are likely to face during the exercise
- Advise Wako beverages on the benefits of letting URSB know their business.