

## SENIOR TWO - HOLIDAY WORK - TERM 3, 2025

### ENTREPRENEURSHIP

Visit a nearby bank and interview any of the tellers /Bank official/ manager about the following:

- The types of accounts which are usually opened up by their clients and their meaning.
- The benefits/characteristics of each account.
- New technologies/use of technology under banking.

### MATHEMATICS

Your guardian has a budget of shs 700,000 for your school expenses. Th get the school where your guardian wishes to take you for A-level, your guardian drove 4km east from your home to the stage and then 8km north to reach there. However, you realized later that there was a direct route from home to school your guardian could have used.

On reaching the school, you found out that, the school fees, admission fees and uniform fees are shs 90,000, shs 100,000 and shs 350,000 respectively. The school also offers a bursary of 60% off school fees, free admission and eighty-seven thousand five hundred shillings off uniform fees to those who got first grade and according to your results, you qualify for this bursary.

It also has two payment plans on school fees that the guardians can choose from and they are:

- Paying in two instalments that is to say: two thirds of the school fees at the beginning of the term and the balance at either visitation day or end of term.
- Paying in three equal instalments; at the beginning of the term, on visitation day and end of term respectively.

#### Task:

- a) How far is it from your home to school if you travel through the direct route?
- b) (i) Since you qualify for the bursary, how much will you pay?  
(ii) Will your guardian afford the expenses according to his budget?
- c) (i) How much will those who are to pay school fees of shs 900,000, pay per instalment, according to each of the payment plans?  
(ii) Which payment plan would you recommend for them and why?

### HISTORY

Your ethnic group once lived in peace and unity under the leadership of respected elders and kings. Social order was maintained through indigenous customs and systems for resolving conflicts. But their peace started to break down with the arrival of visitors – first coming as traders, religious people dressed in robes and travelers. Later, they introduced foreign flags, religions and new systems of administration. Treaties were signed but later broken. Land was taken, traditional authority was weakened and foreign rule took over. Some elders collaborated while others resisted. The foreign rulers brought harsh policies like forced labour, heavy taxation among others which caused great suffering and anger.

In response, early traditional leaders-kings and chiefs led armed resistance while later educated nationalists used peaceful methods like boycotts, political parties and international lobbying to demand Uganda's independence. These events show Uganda's journey as part of the wider struggle for freedom across Africa in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

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Now you've been invited to speak at a youth leadership camp in your community to reflect on these events and share ideas on how young people can help shape a better future.

**Task: Referring to the strategies used by pre-independence leaders, explain how young people today can learn from the strategies to shape Uganda's better future.**

### BIOLOGY

In an attempt to maintain her slender figure, Sarah, who weighs 12 kg and is 0.8 m tall, decided to avoid having lunch and supper. She mainly depends on water and simple snacks. Recently, she has become very thin and bony, frequently falls sick, has soft bones, cannot see well at night, and has turned pale. She once collapsed due to lack of energy while giving a presentation in class. A doctor examined her and recommended that she start taking a **balanced diet** together with some supplements to help improve her health and body strength.

#### Tasks

- Calculate Sarah's BMI and determine her weight category.
- Explain how Sarah's feeding lifestyle has caused her to suffer from different health challenges.
- Explain how taking a balanced diet can help her overcome the challenges and regain her esteem.

### PHYSICAL EDUCATION

During the inter-house netball competitions, your Physical Education teacher made the following observations about Sarah and Norah, who were being considered to join the school team:

Sarah	Norah
Tirelessly played the whole match with a relatively normal breathing rate.	Ran out of breath a few minutes into the match.
Fully extended her arms to intercept and catch high balls, and could easily catch and intercept low balls.	Had difficulty fully extending her arms to catch high balls and could not easily catch low balls.
Remained steady when standing on one leg while shooting.	Staggered and struggled to remain steady on one leg when shooting.
Made quick turns and stable changes in direction.	Could easily fall when trying to make quick turns.

#### Task:

- with reasons, identify the fitness components that Norah needs to work on in order to reach Sarah's level of performance
- Design a one-week fitness program to help Norah improve her performance.

### LUGANDA

Mu ggandaalo lino eriggalawo omwaka ate n'okuyingiria omwaka omuggya abantu abakulu abavubuka n'abaana abato bettanira nnyo eby'emizannyo n'okwewummuzuamu. Gwwe olowooza lwaki kiri bwe kityo? Leeta ensonga eziwerera ddala ate nga onnyonyolya bulungi.

### CHEMISTRY

Many sedimentary rocky areas in different regions of Uganda have been over exploited by locals for minerals. This has raised significant alarm among environmental officials who are worried about the potential consequences of these actions particularly on water sources in the region. The government has organized workshops to raise awareness amongst the locals living in such areas about their actions. You have been invited to attend one of the workshops and address the locals in one of the rocky areas.

**Task:** As a chemistry student, prepare a short message you will use to deliver the workshop.

### FINE ART

#### Attempt all

**Item 1:** At your village there is a new **Bakisimba Dance group** which is going to perform at Rio grounds on 25<sup>th</sup> December 2024, for only ugx.10,000/= entrance. But the organizers are lacking ways of reaching/informing the entire village about this performance.

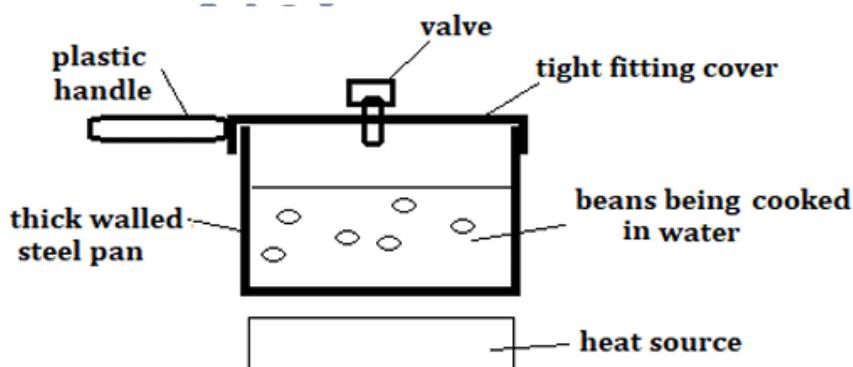
**Task:** As an Artist, create an art work of your choice that can solve the organizers above challenge.

**Item 2:** Your Sister has completed her Degree Course in Computing at Makerere University. She will graduate on 17th January 2025.

**Task:** In an area between 20cm x 15cm, you are requested to design a card that will be inviting her people for her graduation party that will take place on the very day of graduation. Use not more than four colors.

### PHYSICS

**ITEM 1:** A S.2 child and her mum have gone to buy some cooking utensils. The mum explains to the shop attendant that she usually gets problems in cooking beans since they take long to get ready when being boiled in water, leading to wastage of energy and time. The attendant shows her an appliance claiming it cooks fast due to its features. The lady is not convinced about the appliance and wishes to get more information before buying it; so she asks the child to explain more.



**Task:**

Assuming that the lady is your parent or guardian, use knowledge of Physics to educate her on why:

- (i) The appliance makes the beans get ready faster.
- (ii) The steel pan should have a plastic handle.
- (iii) The steel pan should have a thick body.

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- (b) (i) Why steel is an important property in this appliance.  
(ii) Why the bottom of the pan and its sides are made of different colours respectively.
- (c) The different means by which heat from the heat source can reach the beans.

**ITEM 2:** Tourists visited Uganda and went for mountain climbing., before going for the climbing, they were briefed that they would start nose blinding if they climbed beyond 43000cm. the barometer reading at sea level was 76cmHg and at the top of the mountain is 72.12cmHg. when at the top, the decided to cook some food however they faced difficulty in getting the food cooked. One of them felt weak and was given first aid using a syringe but later the syringe got a hole and could not work

**Task:** As a Physics student, help the tourist to

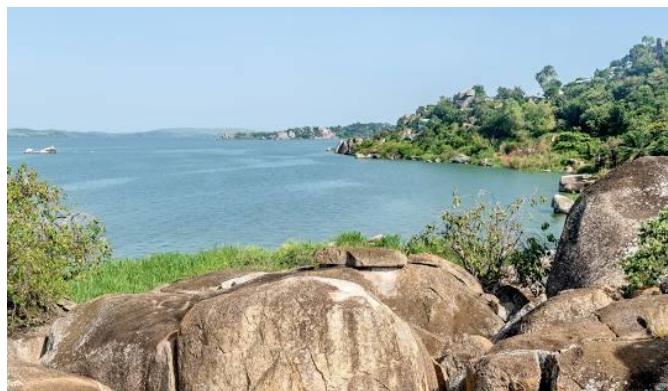
- a) Know whether they will nose bleed at the top of the mountain using mathematical approach and explain why.
- b) Understand how the syringe works and why it later failed to function.

## GEOGRAPHY

Uganda is blessed with abundant fresh water bodies both lakes and rivers for example Lake Victoria, Lake Kyoga, River Nile, River Katonga among others.

The fresh water bodies promote fishing and are sources of food to the people in form of fish proteins

However, fishing has led to some environmental negative efforts like air pollution, deforestation and if not properly handled the environment is at stake.



- a) Write a document on the factors favouring fishing in Uganda.
- b) Explain the benefits of fishing to the development of Uganda.

## TECHNICAL DRAWING

A design engineer is preparing a layout drawing for a machine base. Due to design considerations the manufacturer needs to change the base shape but the area must remain unchanged for stability and material cost reasons.

The original base is a quadrilateral PQRS where  $PQ=40\text{mm}$ , angle  $PQR=105^\circ$ . Angle  $QPS=90^\circ$ ,  $PS=35\text{mm}$ ,  $QR=60\text{mm}$ . The engineer must convert this quadrilateral into a square base of equal area. Geometrically illustrate this conversion.

**CRE**

Kasango is an elder son in a family of six children living in Kapeera village. He does not respect his father and mother, within society he has become a victim of rape, defilement and laziness. A few weeks ago, Kasango attacked his father, abused him, hit his head with broken bottle which made his father be rushed to hospital. Kasango puts a lot of pressure on his father to give him his share of land and he even threatens to kill him if he does not give him his share immediately.

**Task**

- a) How are the worship practices among Christians today reflect in the scenario above?
- b) Explain the traditional African practices that are related to those in the above scenario.

**KISWAHILI**

Unashangazi wako ambaye anaishi nchini Kenya ndiye ambaye amekuwa analipa pesa za shule. Mwandikie barua ya kirafiki ukumweleza mambo ya Uganda. (You have your aunt who stays in Kenya and she is the one who has been paying your school fees, write to her a friendly letter explaining things in Uganda.)

**ICT**

1. What is meant by information processing cycle?
2. Give two advantages and two disadvantages of using computer for information processing.
3. Suggest four considerations before using computer for information processing
4. Describe briefly the differences between batch processing and real-time processing. Give one real life example for each of these information processing methods.
5. Suggest two ways to improve the speed of a personal computer system.

**AGRICULTURE (Choose one item only)**

**Item 1:** Muwanguzi is a passion fruit dealer. He normally Collects his produce from different farmers and packs them in a big basket for sale. Some passion fruits were harvested immediately after heavy rain and had soil on them. His customers usually complain of the mixed sizes of his passion fruits. He requests his customers to come with shopping bags where he can put for them. As a result, he receives few customers and the remaining passion fruits rots.

**Task:** Advise Muwanguzi on the best way of managing his passion fruit business profitably.

**Item 2:** Assimwe is a vegetable vender mainly the Brassica type. She washes them by squeezing them and most of the leaves get torn. He placed the washed vegetables on a dirty table. By the late afternoon, she had Sold a few and most leaves had withered. In the evening, the customers were offering her half of the original price she was selling. She threw away the remaining withered vegetables the following morning. She is disappointed and needs your help.

**Task:** Advise Assimwe on better vegetable management to increase profits from her business.