



# VIVA COLLEGE SCHOOL

P.O BOX 234, JINJA, UGANDA

EMAIL.: [inquiries@vivacollegeschool.com](mailto:inquiries@vivacollegeschool.com)

website: [www.vivacollegeschool.com](http://www.vivacollegeschool.com)

**HOLIDAY WORK TERM ONE, 2019**  
**GREAT MINDS SHAPE THE WORLD**

**Academics**  
**dept.**  
**27<sup>th</sup> April, 2019**

## SENIOR TWO

SUBJECT	CHALLENGE	MKS																																																																		
<b>INSTRUCTIONS</b> <ol style="list-style-type: none"> <li>For classes 1 to 2 all questions in all subjects are compulsory thus attempt all questions</li> <li>For senior 3 students, please attempt all questions for the compulsory subjects and only those for your options</li> <li>For senior 5 students, please attempt all questions in your subject combination</li> <li>For better marks, you must present and explain thoroughly well all the attempted challenges</li> <li>For each of your study subject done, it must be put in a separate 96 exercise book (its ok to use the previous books)</li> <li>Holiday work must be done before reporting back to school and the respective class teacher shall receive your work on reporting</li> </ol>																																																																				
ENGLISH	<p>The following is a collection of traditional proverbs. Briefly explains what they mean and give their importance or relevance.</p> <ol style="list-style-type: none"> <li><i>A bird in the hand is worth two in the bush</i></li> <li><i>A friend in need is a friend indeed.</i></li> <li><i>A stitch in time saves nine.</i></li> <li><i>Absence makes the heart grow fonder.</i></li> <li><i>As you sow, so you shall reap.</i></li> <li><i>Better late than never.</i></li> <li><i>better safe than sorry</i></li> <li><i>Don't count your chickens before they're hatched.</i></li> <li><i>Don't cry over spilt milk.</i></li> <li><i>Don't judge a book by its cover.</i></li> </ol>	10mks																																																																		
LITERATURE	Explain the plot or story summary of the novel Recipe for Disaster by Lillian Tindyebwa.	20mks																																																																		
FRENCH	<p>Search the internet for the conjugation of the following verbs in present tense in french</p> <table border="1"> <thead> <tr> <th>verb</th> <th>Je</th> <th>Tu</th> <th>Il/Elle/On</th> <th>Vous</th> <th>Ils/Elles</th> </tr> </thead> <tbody> <tr><td>Sortir</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Venir</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Partir</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Danser</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Venir</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Etre</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Manger</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Penser</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Aller</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Avoir</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	verb	Je	Tu	Il/Elle/On	Vous	Ils/Elles	Sortir						Venir						Partir						Danser						Venir						Etre						Manger						Penser						Aller						Avoir						25mks
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MATHEMATICS	<ol style="list-style-type: none"> <li>Copy and complete the table below for the function <math>y = x^2 - x - 2</math> (05 marks)</li> <li>Using 2 cm to represent 1 unit on both axes, draw a graph for the function <math>y = x^2 - x - 2</math>. (05 marks)</li> <li>Use the graph to solve the equation <math>x^2 - x - 2 = 0</math> (02 marks)</li> </ol> <table border="1"> <tbody> <tr><td><math>x</math></td><td>-2</td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr> <tr><td><math>x^2</math></td><td>4</td><td></td><td>0</td><td></td><td>4</td><td></td></tr> <tr><td><math>-x</math></td><td>2</td><td></td><td>0</td><td></td><td>-2</td><td></td></tr> <tr><td>-2</td><td>-2</td><td></td><td>-2</td><td></td><td>-2</td><td></td></tr> <tr><td><math>y</math></td><td>4</td><td></td><td>-2</td><td></td><td>0</td><td></td></tr> </tbody> </table>	$x$	-2	-1	0	1	2	3	$x^2$	4		0		4		$-x$	2		0		-2		-2	-2		-2		-2		$y$	4		-2		0		(12mks)																															
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CHEMISTRY	<ol style="list-style-type: none"> <li>With use of a well labelled diagram, describe the laboratory preparation of dry oxygen gas using potassium chlorate. (your answer should include: conditions for the reaction, method of drying the gas, method of collecting the gas) (06 Marks)</li> <li>(i) Write the equation for the reaction that takes place. (1mark)  (ii) State the physical properties of oxygen gas. (3 marks)</li> <li>(i) Magnesium metal was burnt in oxygen, state what is observed. (1mark)  (ii) Write the equation for the reaction that occurs (1mark)  (iii) Dry oxygen gas was passed over heated brown solid of copper turnings in a combustion tube. State what would be observed and write the equation for the reaction that takes place.</li> <li>Outline any three uses of oxygen gas. (3marks)</li> </ol>	15mks																																																																		
BIOLOGY	<ol style="list-style-type: none"> <li>Draw and fully describe the (i) <i>Nitrogen cycle</i> (15 marks) (ii) <i>Carbon cycle</i> (10 marks)</li> <li>Outline the <i>human activities</i> which affect the <i>carbon cycle</i> (20 marks)</li> </ol>	30mks																																																																		

SUBJECT	CHALLENGE	MKS
COMMERCE	1. (a) State the <i>laws of demand</i> . (04 marks) (b) Explain the factors that affect <i>demand</i> in your country. (16mark) 2. (a) Explain the features of a <i>wholesale</i> . (06 mark) (b) Explain the functions of wholesaler in home trade. (14 marks)	40mks
HISTORY	1. (a) Why are the <i>Chwezi</i> remembered in the history of <i>E.Africa</i> . (b) Outline the reasons for the collapse of the <i>Chwezi Empire</i> .	20mks
AGRICULTURE	1. (a) Mention any 10 examples of crop <b>pests</b> and the <b>crops</b> they attack. (10 marks) (b) Give and explain the ways how crop pests <b>spread</b> from one place to another. (20 marks) (c) Describe the methods that can be used to <b>control</b> the spread of crop pests. (20 marks)	50mks
GEOGRAPHY	1. (a) Draw a <i>sketch</i> map of <i>North America</i> and on it mark and name the new cotton belt and old cotton belt. (10marks) (b) Describe the conditions which have favored <i>cotton</i> growing in the new cotton belt. (5 marks) (c) Explain the factors that led to decline in <i>cotton</i> production in the old cotton belt. (6 marks) (d) List two major cotton growing areas in the new and old cotton belt areas. (4 marks) (e) Describe the contribution of the agricultural sector to the development of the south? (5 marks)	30mks
IRE	1. Make a research about the following questions (a) Explain the recommended acts for a Muslim who is observing fasting. (b) What acts spoils fasting.	20mks
FINE ART	Learners should make a landscape drawing in colour, considering linear perspective around their homes with trees, houses and a road.	40mks
SWAHILI	1 (a) Andika nomino kumi katika ngeli ya "M-Wa"/ "A-Wa" kwa Umoja (Write ten nouns in Ngeli ya "M- Wa" / "A-Wa" in singular form) (b) Geuza nomino umeandika kwa sehemu (a) katika wingi (Change the nouns you have written in part (a) into plural form	20mks
COMPUTER	1. (a) Define the term <i>Central Processing Unit</i> of a computer and state the major parts of the CPU (7 mks) (b) Explain the function of the parts mentioned above (10 mks) (c) Convert $64_{ten}$ to <i>binary</i>	20mks
CRE	1. (a) Give reasons why the Christian missionaries were against some of the African leisure activities. (b) Of what importance was the <i>Sabbath day</i> to the Israelites? (10 marks)	20mks
F.N	1 (a) Define the following terms as applied in the study of nutrition (i) Diet (ii) Nutrition (iii) Food (iv) Carbohydrates (v) Nutrients (b) Giving examples describe the <b>three (3)</b> food groups 2 (a) Giving two examples in each outline the <b>four (4)</b> classes of carbohydrates (b) State the functions <b>five (5)</b> of carbohydrates in the human body	20mks
PHYSICS	1. Two gear wheels A and B with 80 and 20 teeth respectively lock into each other. They are fastened on axles of equal diameters such that a weight of 150 N attached to a string wound around one axle raises a load of 450 N attached to a string wound around the other axle. Calculate: (a) (i) the <i>velocity ratio</i> . (ii) the <i>efficiency</i> of the system, if the A drives B. (b) (i) the <i>velocity ratio</i> . (ii) the <i>efficiency</i> of the system, if the B drives A. 2. (a) Distinguish between weight and mass of a body. (b) The force of gravity on the moon is one-sixth of that on the earth. Determine the weight of a 12 kg mass on: (i) The <b>earth</b> , (ii) The <b>moon</b> ? (c) Explain why the weight of a body on earth may vary from place to place.	20mks

### Assessment Percentage rank for term two, 2019

Report	Holiday work	Mid-term exam	End of term exam	TOTAL MARK
Mid-term report	20%	80%	.....	100%
End of term report	10%	30%	60%	100%

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