INTEGRATED PRIMARY SCIENCE

PRIMARY LEAVING EXAMINATIONS 2023

TEACHING, LEARNING AND PASSING GUIDE (TIPS FOR TEACHERS AND LEARNERS)

PREAMBLE

Passing a formative or a summative exam is not an event, but a well-planned, a well-implemented, well monitored, well supported/directed, well assessed and well evaluated set of complimentary activities. When one activity fails, it affects the success of all other functions. To summarize this statement, we will apply the TQM principle of management: Total Quality Management (Inputs+Processes=Outputs).

SECTION A: TIPS FOR TEACHERS

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No	SUCCESS TIPS	EVALUATE
1	A copy of the curriculum P1-P7 is a must have: to guide planning, execution and assessment	
2	Read the curriculum wholly and comprehensively, and interpret it well	
3	Pay attention to the intended competencies per topic and align content with competences	
4	Break down the topical content according to the topical competences	
5	Pay attention to topical language competences, topical word list (vocabulary): meaning, spelling and usage	
6	Plan and prepare what to teach/revise/review/experiment	
7	Science is a practical subject; employ practical activity-based learner centered methods using a variety and a hybrid of instructional (T/L) aids	
8	Teach/revise effectively: competences must be achieved and mastered; relate competences to learners' daily life experiences.	
9.	Assess sub-topically and topically: at the end of every topic administer a comprehensive topical test	
10	Review the topic after its assessment and consolidate the competences/content.	

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	Regularly revise all covered topics to ensure learners do not forget acquired knowledge, skills and knowledge.		
12	In assessment, be it formative or summative, the three questioning levels (taxonomy) must be well catered for: KCA;		
	a. Knowledge questions: recall facts		
	b. Comprehension questions: test reasoning, you fully		
	understood the concept and you can reason based on the		
-	- talowiedge/skill gained		
	c. Application questions: use of gained competences in		
133	problem solving in everyday life experiences:		
	i. In integrated science, putting		
	i. In integrated science, quite often we stretch to five levels, two more in addition to the above:		
	d. Synthesis questions: test your ability to		
	The state of the s		
	J = " Cuit		
	C. Allatytical Questions: tost		
	Whole thing into the		
-			
	11. A teacher who cannot assess a topic/		
13			
13	The chectiveness of a toacher :		
100			
	the cardinal role of the teacher to properly equip learners with		
100	scientific vocabulary, competences (knowledge & skills), content,		
	5 wild die dubille di little fit ann in .		
14	The state of the s		
FILS	do required, dijection approach		
1		The second second	
15	and motivation I compared to the state of th		
1000	The state of the s		
131	Be it noted that no matter how well you took his	STREET, STREET	
FO VI	and a second die iiii well bandlad was it		
	good: and at all times, the candidate must:		
16	Compose him/horsolf and		
	Compose him/herself, gather confidence, be calm and maintain a		
	positive attitude before, during and after the paper.		

17	Exercise discipline and out to
-	Exercise discipline and exhibit the highest degree of self-control
la constant	

SECTION B: TIPS FOR CANDIDATES ON QUESTION APPROACH:

01	Canada II	
	them as required.	
02	Carefully and thoroughly read the question and understand/interpret it well. Identify the key-words(answerdeterminers). It is not an offence to underline such words before you write your answer	
03	Write a clear precise and an undebatable answer Long answers/sentences not recommended	
04	Use scientific vocabulary and scientific expressions when writing your answer. You must be familiar with the science words used in each of the topics we cover. Remember, even if you know the answer yet you cannot spell it right, your responses shall be marked wrong! Master the correct spelling of words (words, spelling, meaning and correct usage)	
05	For questions that require you to give reason, please reason scientifically	C Charles I T
06	Diagrams and Questions about them:	
	Diagrams can be picture, illustration, table, graph, card, etc	
	Before you answer any questions about the diagram, do the following as a must:	
	Read the instructions first and understand what they tell you to do	
	Keenly study/observe the diagram and determine what it is of or it is about.	
1	Questions about a diagram are related(stem type of questions), so it is advised that you read all questions about that diagram, and understand them well before you answer them	
t	t is advisable to answer those questions in order from the first to he last, why? Usually, one question leads to the peyt.	
	When required to show or label a part on the diagram, observe he following:	

	i. Do not use head-arrows	
	NB: Arrow heads are used when asked to show movement of energy	
1	(ag alastria surrent) host flow of blood direction	
	Labelling lines and (or arrows when required) must be in pencil,	
	NOT INK/PEN!	
	(c). When asked to draw a diagram:	
	❖ All drawings/diagrams must be in pencil	
	❖ All diagrams must have complete outlines, that is:	
	❖ No part/component should be detached or left hanging	
	* Each part should be attached to its base	
100	Do not shade or make bold any part of the diagram (unless	
	required to do so)	
1.5	d. When asked to use letter 'K' a part on a diagram:	
	❖ Draw a line and ensure it touches the exact part asked/	
1	❖ Then at end of the line label it with letter K	
07	Comparison Questions: these are questions that assess similarities	
	and differences. How to answer such questions:	
1	Read and comprehend the question	
	Identify the comparison element/technique wanted, i.e is it a	
	difference(s) or a similarit(y)ies?	
13.13	For comparison whether differences or similarities, please,	
	mention both subjects (A bee and a housefly,	
	Avoid using pronouns like It, They, He, She, where the	
	subjects/items as in (07)iii above	
	To give the differences, use the conjunction whereas or while	
	i. When you give differences in comparison questions,	
	please, use the same features, e.g.	
19	Compare the number of legs to number of legs	
- 79	Compare body parts to body parts	Carried Street Contract
	Compare breathing organs to breathing organs	
	Size of comb to size comb (cock versus hen)	The state of the s
	Dispersal method, etc	
	ii. Do not use negative statements in comparison, eg:	
1 1 3	A housefly is an insect whereas a spider is not. (so what is the	
1 m	spider? That is an incomplete comparison, please, state what the	Constitution of the second
1000	spider is)	
08	Questions that ask you to name, mention, give, state, list, outline	
	or to identify:	1

	❖ lava - larva	
	· heir - hair	
	* flour - flower	
	❖ living - leaving	
14	Short forms of words: these are abbreviations and contractions;	
	✓ use only conventionally accepted(standard) short forms, in	
	capital or small letters as required:	
	cm, m, cc, ml, j(joules).	1
	> Do not create your own abbreviations except standard ones	
15	Calculation Questions: these require a logical operation (+,×,-,+)	
	following prescribed procedure(steps) to arrive at the answer:	
	i. First state the formula, eg $l \times w \times h = v$	
	ii. Proceed logically	
	iii. Use the given units; e.g. cc	
	NB: Be mathematical here!	
16	Matching Questions: usually given in a table or in a list;	
197916	✓ First, read the instructions before the table or list	
	✓ Read the the two lists of words or statements in either	
	partition of the table or list	
	✓ Interpret/understand what they are about	
	✓ First match those words or statements you are conversant	
	with	
	✓ Then lastly, carefully transfer the words/statements plus	
	their corresponding words/statements into the provided	
	spaces, as your final answers (DON'T MISSPELL OR MISFIRE	
17	WORDS/STATEMENTS)	
17	Time management: The paper lasts 02 hours and 15 minutes, which cover:	
	Reading the instructions	
	Reading the instructions Reading the questions thoroughly 1 to 3 times before you answer	
	Planning your answer(thinking before writing)	
	Carefully and neatly writing your responses	
	Proofreading all your answers before you hand in your booklet	
	Don't rush to finish, take your time and progress thru the paper	
	systematically	
	NB: Taking your time doesn't mean being slow, careless or	
1 15	complacent: just use your time right	
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	(i)	In Science we discourage fountain pens and instead, we encourage the use a ball pen - blue or black but you have to choose only one of the two. Do not mix blue and black in the same booklet. It may be mistaken for external assistance(malpractice).	
	(ii)	The pencil must only be used for diagrams/drawings	
	(iii)	The ruler is for drawing straight lines of a drawing or angle(as in reflection or refraction, etc)	
		ne writing tools for a science exam are; a ball pen (not), pencil and ruler	
	iii.	Candidate's handwriting must be neat and readable (legible). Crooked handwriting may lead to loss of marks	
19	spelt sci	on language: write your answers in simple clear correctly entific English, please, avoid bombastic English, such shall ult in your loss of marks!	

Best of Luck!

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God is Generous!

