

**THE 2024 P.7 PLE PREPARATION SUMMARY:**  
**SUBJECT: INTEGRATED SCIENCE:**  
**THE FINAL QUALITY CHECK HANDOUT.**  
**2024 SPECIFIC AREAS OF PRIORITY.**

THEME	TOPIC
A. THE ENVIRO NMENT	1. AIR, WATER AND THE SUN <ul style="list-style-type: none"> <li>• Properties of air (experiments and functions)</li> <li>• Weather chart and instruments</li> <li>• Water cycle</li> </ul>
	2. SOIL <ul style="list-style-type: none"> <li>• Components of soil and define terms in soil</li> <li>• <u>Soil pollutants</u></li> <li>• Fertilizers (types)</li> </ul>
	3. RESOURCES <ul style="list-style-type: none"> <li>• Biogas</li> <li>• <u>Charcoal burning (steps)</u></li> <li>• <u>Pollution types</u></li> <li>• Fire extinguisher</li> <li>• Waste management (5R's)</li> <li>• <u>Silting</u></li> <li>• Alloys</li> </ul>
	4. INTERDEPENDENCE <ul style="list-style-type: none"> <li>• Food chain</li> <li>• Tree harvesting (draw, importance)</li> <li>• wood seasoning (draw, importance)</li> </ul>

B. HUMAN HEALTH	<ul style="list-style-type: none"> <li>• <b><i>Food taboos</i></b> (adv, disadvantages)</li> <li>• Balanced diet</li> <li>• <b><i>4F germ path</i></b></li> <li>• Breast and bottle feeding</li> <li>• <i>Weaning babies</i></li> </ul>
	SANITATION <ul style="list-style-type: none"> <li>• <b><i>Latrines and toilets</i></b> (include potties)</li> <li>• Intestinal worms and diarrheal diseases</li> <li>• Disease vectors (focus on mosquito <b><i>lifecycle</i></b>)</li> </ul>
	ACCIDENTS AND FIRST AID <ul style="list-style-type: none"> <li>• <b><i>Choking</i></b></li> <li>• <b><i>Poisoning</i></b></li> <li>• Near drowning (kiss of life), convulsions, burns</li> <li>• First aid kit</li> </ul>
	<ul style="list-style-type: none"> <li>• IMMUNISATION (table)</li> <li>• <b><i>PHC</i></b> elements and principles</li> <li>• Smoking (focus on effects)</li> </ul>
C. THE HUMAN BODY	<ul style="list-style-type: none"> <li>• Teeth (structure, regions).</li> <li>• <b><i>Digestion</i></b> (parts, functions, juices).</li> <li>• <b><i>Circulation</i></b> (blood vessels and heart).</li> <li>• Respiratory (process, model, gas composition in <u>inhaled vs exhaled air</u>).</li> <li>• <b><i>Reproduction</i></b> (organs, cells, family planning, PIASCY).</li> <li>• <b><i>Excretion</i></b> (skin, kidney).</li> </ul>
D. WORLD OF LIVING THINGS	<ul style="list-style-type: none"> <li>• Seeds (parts, functions)</li> <li>• Germination (experiments)</li> <li>• <b><i>Leaf</i></b> (types, venation, Photosynthesis, Transpiration)</li> <li>• Flower (insect vs wind <b><i>pollinated</i></b>)</li> <li>• Stem (types, support)</li> </ul>

	<ul style="list-style-type: none"> <li>• Roots (parts, types esp. <u>prop</u>)..... ONION</li> </ul>
	<p>NON-FLOWERING PLANTS</p> <ul style="list-style-type: none"> <li>• Spore bearing and conifers (draw especially <i>moss</i>)</li> <li>• Fungi (harmful vs useful) focus on mushroom and yeast</li> </ul>
	<ul style="list-style-type: none"> <li>• Reptiles (<i>snakes</i>)</li> <li>• <u>Amphibians</u></li> <li>• <u>Arthropods</u></li> <li>• Molluscs</li> <li>• Fish.</li> </ul>
<p>E. MATTER AND ENERGY</p>	<ul style="list-style-type: none"> <li>• <u>Mass and weight</u> (focus on instruments and differences)</li> <li>• <u>Vacuum flask</u></li> <li>• Experiments on heat (expansion and burning)</li> <li>• Potential and kinetic energy</li> <li>• Temperature scales (conversion)</li> <li>• Sound (<u>ear</u>, <u>echoes</u>, musical instruments)</li> <li>• <i>Short circuit</i></li> <li>• Static electricity</li> <li>• Electric bell//bulb//dry cell/torch.</li> <li>• Properties of <i>magnets</i></li> <li>• Artificial magnets (making and weakening)</li> <li>• <b>FRICTION FRICTION FRICTION</b> (meaning, uses, reduce, increase)</li> <li>• <u>Pulleys</u></li> <li>• <b>LIGHT LIGHT LIGHT!!!!</b> ( refraction thru a glass block// optical instruments esp. lens camera and eye// beams// periscope// nature of objects//</li> </ul>

F. CHANGES	<ul style="list-style-type: none"> <li>types//managing//effects//characteristics</li> </ul>
G. SCIENCE IN HUMAN ACTIVITIES AND OCCUPATION	<ul style="list-style-type: none"> <li> <b><u>POULTRY</u></b>  breeds// systems of keeping// incubation//brooding//vices// diseases(table) </li> <li> <b><u>BEEES</u></b>  types//beehives (draw)//bee farm activities e.g., stocking, honey harvesting. </li> <li> <b><i>PESTS AND DISEASES</i></b>  signs // effects // how to control  <b>CROP ROTATION AND PLANT TRAINING</b> </li> <li> <b><i>CATTLE</i></b>  Colostrum // insemination // dairy vs beef // ectoparasites // drying off // steaming up// castration </li> <li> <b>Rabbits// goats// sheep// pigs</b>  (Focus on rabbits and pigs), farm activities, breeds and diseases (table) </li> <li> <b>CLEANING CLOTHES AT HOME (STEPS)</b> </li> <li> Making water clean (focus on <u>filtration</u>) </li> <li> Common <u>garden tools</u> (name, functions) </li> <li> Food stores (especially <u>granary</u>) </li> <li> Making <u>local salt</u> </li> </ul>

G. COMMUNITY, POPULATION AND HEALTH	<ul style="list-style-type: none"> <li>• Anti-social behavior.</li> <li>• Water associated diseases (types and examples).</li> </ul>
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## **TIPS ON LAST-MINUTE REVISION:**

*Guide the candidates on the following aspects;*

- ✓ To be brief and precise when answering.
- ✓ Question approach and interpretation.
- ✓ Taking note of the number of answers needed on a question.
- ✓ Identifying of key concept(stem) in the question.
- ✓ Space utilization when answering questions.
- ✓ Giving attention to the instruction question above every diagram.
- ✓ Correct use of pencils, ruler, arrows, labeling lines when making drawings.
- ✓ Correct use of pronouns and scientific terms.
- ✓ Correct matching, filling tables.
- ✓ How to handle experiment questions, for both diagrams and steps.

## **DISCLAIMER!**

This compilation of topics is built in a similar style to that presented in my previous P.7 internal exams or assessments I've been setting for our candidates this year.

There can be no guarantee of the extent to which this compilation will reflect the actual content in the final science PLE examination the candidates will sit on 7th November, 2024.

I hope that science teachers, facilitators and learners find this compilation relevant in their preparation for the final exam this year, 2024.

However, I take no responsibility for the relevance of this compilation to the actual final science examination sat.

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