

Practical work grade 11 CAPS - Scope for Practical Examination 15 October 2019 (Focus on sections in yellow)									
In general									
- Be able to draw/interpret different types of graphs/tables/diagrams									
- Make simple calculations from given data									
Diversity, change and continuity			Life Processes in Plants and Animals				Environmental studies		
1.	Observe the prevalence of bacteria/fungi in growing cultures on agar plates, or bread mould (fungus) on bread.		1.	Investigate photosynthesis by showing that starch is produced during photosynthesis.			1.	Determine the size of a population by quadrat or simple sampling e.g. simulated mark/recapture.	
2.	Look for evidence of bacteria/fungal diseases on plants (school and home). Map the distribution of one disease in the study area.		2.	Investigate photosynthesis by showing that light is necessary for photosynthesis.				Collect and record data.	
								Interpret data.	
								Calculate/estimate the population size.	
3.	Observe and draw relevant macroscopic parts to provide examples of each of the following divisions:		3.	Investigate Carbon dioxide is necessary for photosynthesis; OR data can be provided and interpreted by learners.			2.	Case study: Rationale for culling, e.g. elephants in the Kruger National Park as an example of an application of estimating population size (link to researched reasons for culling).	
	- bryophytes: moss plant		4.	Investigate chlorophyll is necessary for photosynthesis. OR data can be provided and interpreted by learners.			3.	Draw up a public survey form to test the public opinion about culling. Show results in a pie graph.	
	- Pteridophytes: ferns, frond with sori		5.	Investigate oxygen is produced during photosynthesis; OR data can be provided and interpreted by learners.					
	- gymnosperms: needles, cones and seeds;		6.	Obtain intestines of a sheep from a butcher and trace the passage that food will take. Cut open the stomach, portion of the small intestine and a portion of the large intestine to compare the structure of the wall in each.			4.	Draw a life cycle of the tapeworm (simplify larval stages). (Links to animal biodiversity)	
	- angiosperms: flower, fruit and seeds.		7.	Calculate the nutritional value of a meal. Use dietary information or food packaging.			5.	Identify an area in or close to the school grounds where succession is taking/has taken place. (e.g., in the goal area on the sports field at the end of a season or a meadow that has been scrapped).	
4.	Draw a phylogenetic tree showing the evolutionary history of the four plant groups and major structural changes in their history of development.		8.	Design an investigation or demonstration to show that oxygen is used by living organisms during respiration. OR provide relevant data that can be interpreted by learners. Identify variables, suggest controls for variables and record observations.			6.	Practical observation of ONE example of human influence on the environment in the local area (e.g., the impact of alien species on biodiversity). Written report on.	
5.	Dissect an example of each of the following types of flowers:		9.	Design an investigation or demonstration to show that carbon dioxide is produced by living organisms during respiration. OR provide relevant data that can be interpreted by learners. Identify variables, suggest controls for variables and record observations.					
	- wind pollinated		10.	Use books and on end and one on top of					
	- insect pollinated								
	- bird pollinated								
	Record observations in a comparative table.								

6.	Optional: Germinate seeds; record process.			another to illustrate and calculate the differences in respect of surface area to volume ratio which is caused by different shapes: e.g., flatworm (Planaria) and earthworm.			7.	Rhino poaching in South Africa: read articles and make suggestions on how it can be prevented.	
7.	Calculate approximate surface area to volume ratios of selected examples of different animals of the six phyla.		11.	Observe and investigate the structure of the lungs, diaphragm, associated pulmonary blood vessels and the heart of a pig or a sheep obtained from a butcher.			8.	Analyse the solid waste generated in the household in one week, including paper, metals and plastic. Estimate the percentage that could be recycled or reused.	
8.	Observe examples from as many phyla as possible (photographs/DVDs).		12.	Construct a model of the human breathing system. Explain the limitations of the model.					
9.	Select one phylum and design a poster to show diversity in that phylum in South Africa.		13.	Demonstrate that expired air contains carbon dioxide. Measure and compare the depth of breathing of two or more learners and the effect of exercise on breathing/pulse rate. Interpret data on depth and rate of breathing.			9.	Visit a municipal landfill site, or a local refuse dump. Observe rehabilitation (or lack thereof) in practice. Assess the effectiveness of waste management.	
10.	Construct a comparative table of these four key features in the six selected phyla.		14.	Analyse and interpret data showing the effects of altitude on the number of red blood cells and the consequent effect on athletes at different altitudes (Links to Grade 10.) Dissection of a sheep's or pig's kidney (obtained from butchery). Use a worksheet to identify the following: capsule, cortex, medulla, pyramids, blood vessels, pelvis, ureter and hilum. Draw and label the dissected kidney.					

Grade 11 Practical Work Photosynthesis

David Baud



Grade 11 Practical Work Photosynthesis:

Grade 11 Practical Work Photosynthesis Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Grade 11 Practical Work Photosynthesis**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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