GES Year 7 Science: Term 1 (Sept-Oct, 2019-20)

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| TOPICS: SKILLS IN SCIENCE, CELLS, TISSUES, ORGANS & SYSTEMS |

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| Theme: Identify and demonstrate the skills used in Science. To explore the acids & alkali, cells, tissues, organs and systems.  | Level: Year 7 |
| Objectives: To develop an understanding of how our body systems are made from the smallest unit of cells. To apply scientific skills in everyday life and within the laboratory.  |

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| Focussing Statements | Key Words |
| 1. **Can you identify things as being or not?**
2. Describe the life processes.
3. Use life processes to justify whether something is an organism or not.
4. **Can you identify and locate major organs in humans and plants?**
5. Recall that the heart is an example of an organ.
6. Describe the functions of the major human and plant organs.
7. Explain what happens in photosynthesis.
8. **Recall some tissues found in the heart and plant roots.**
9. Describe how organs and tissues are linked.
10. Describe the function of different tissues in some animals and plant organs.
11. **Identify a cell as an animal cell or a plant cell.**
12. Name some of the parts of cells.
13. Name the parts of animal and plant cells and describe their functions.
14. Identify and name some specialised cells and describe what they do.
15. Explain how and why certain cells are specialised.
16. **Describe how cells, tissues, organs and organ systems are linked.**
17. Recall some of the organ systems in plants and animals and what they do.
18. Recall the organs in some plants and animal organ system.
19. **Working Scientifically – Skills in Science**
20. Identify and name some parts of a microscope.
21. Describe how to make a slide and explain what the coverslip is for.
22. Explain how the parts of a microscope work.
23. Describe how to use a microscope to look at a specimen on a slide.
24. Work out microscope magnifications.
25. Estimate the sizes of specimens seen under a microscope.

**Assessment – in November on the above topic** | CellsTissuesOrgansSystemsRespirationPhotosynthesisXylemSpecimenObjective lensSpecialisedVacuoleChloroplastsChlorophyllNucleusCytoplasmMitochondriaCelluloseLocomotorCirculatoryEvaporationTransplantPropertiesRecyclingScientific MethodTheoryObservationsDataResultsEvidenceIndependent VariableDependent VariableControlOutliersAnomalous Results | Explaining WordsWhat if……Differences between cells include…..….due to the fact…..……is caused by…..…this results in……The results on the graph determine…..Why does…….…is highlighted when magnification is used.Calculating the magnification allows us to…… |

 **Text Book and worksheets**