GES IGCSE BIOLOGY Term 1 (Sept-Oct, 2019-20)

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| TOPIC: CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS |

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| Theme: Identify the 7 characteristics of a living organism and explain how to classify living organisms according to their different physical characteristics. | Level: Year 10 |
| Objectives: To develop an understanding of the special features that make living things different from non-living objects. To identify features of organisms and to introduce the concept and use of a classification system. | |

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| Focussing Questions | Key Words | |
| 1. **What is a living thing?**  * How do living things differ from non-living things? * What are the characteristics of a living thing? * Why do living things need energy?  1. **Classifying living things.**  * Why is classification necessary? * What is the hierarchy of classification and how is it helpful? * What is binomial nomenclature and how is it useful? * What are the five kingdoms and what are their distinguishing characteristics? * What are the different phyla and what are their distinguishing characteristics? * What are the different types of classification key and how are they useful?   Assessment  Textbook questions  Production of classification keys  Microscope technique  End of unit test constructed from past paper questions | Respiration Reproduction Excretion Sensitivity Nutrition  Classification  Taxonomy Morphology  Dichotomous key Kingdom  Phylum  Class  Order  Family  Genus  Species  Vertebrate  Invertebrate Prokaryote  Fungi  Protoctista  Mammal  Annelid  Mollusc  Arthropod  Myriapod  Arachnid  Nematode Angiosperm  Monocotyledon Dicotyledon | Explaining words:  To demonstrate the qualities of…  …these can help to clarify…  As a result…  These body parts are associated with…  These can be used to differentiate…  …because…  This causes… |

**Textbooks and worksheets**