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

|  |
| --- |
| TOPIC: CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS |

|  |  |
| --- | --- |
| 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. |

|  |  |
| --- | --- |
| 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?

AssessmentTextbook questionsProduction of classification keysMicroscope techniqueEnd of unit test constructed from past paper questions | Respiration Reproduction Excretion Sensitivity NutritionClassificationTaxonomy MorphologyDichotomous key Kingdom PhylumClass Order FamilyGenus Species VertebrateInvertebrate Prokaryote Fungi ProtoctistaMammal Annelid MolluscArthropod MyriapodArachnidNematode AngiospermMonocotyledon 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**