Biology Lesson Plans Unit 6-II 18-19 K/H

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MAIN TOPIC: Protist II

Background Knowledge:

(6.12) The student knows all organisms are classified into Domains and Kingdoms. Organisms within these taxonomic groups share similar characteristics which allow them to interact with the living and nonliving parts of their ecosystem. The student is expected to:

(B) recognize the presence of a nucleus determines whether a cell is prokaryotic or eukaryotic.

(D) identify the basic characteristics of organisms, including prokaryotic or eukaryotic, unicellular or multicellular, autotrophic or heterotrophic, and mode of reproduction, that further classify them in the currently recognized Kingdoms.

(7.11) The student knows that populations and species demonstrate variation and inherit many of their unique traits through gradual processes over many generations. The student is expected to:

(A) examine organisms or their structures and use dichotomous keys for identification.

(B) explain variation within a population or species by comparing external features, behaviors, or physiology of organisms that enhance their survival.

(7.12) The student knows that living systems at all levels of organization demonstrate the complementary nature of structure and function. The student is expected to:

(A) investigate and explain how internal structures of organisms have adaptations that allow specific functions.

(D) differentiate between structure and function in plant and animal cell organelles including cell membrane, cell wall, nucleus, cytoplasm, mitochondrion, chloroplast, and vacuole.

(E) compare the functions of a cell to the functions of organisms such as waste removal.

(F) recognize that according to the cell theory all organisms are composed of cells and cells carry on similar functions such as extracting energy from food to sustain life.

(7.14) The student knows that reproduction is a characteristic of living organisms and that the instructions for traits are governed in the genetic material. The student is expected to:

(B) compare the results of uniform or diverse offspring from sexual reproduction or asexual reproduction.

(8.11) The student knows that interdependence occurs among living systems and the environment and that human activities can affect these systems. The student is expected to:

(A) describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs.

(C) explore how short and long term environmental changes affect organisms and traits in subsequent populations.

Unit Calendar:

Monday	Tuesday	Wednesday	Thursday	Friday
Jan 7 Mitosis foldable	8 Notes: Cell Cycle	9 Process of Cell Division WS (DG)	10 Cell Cycle Quiz (DG) Notes: Cancer	11 Notes: Protist classification Protist Dichotomous Key
14 Protist WS (DG)	15 Review	16 Protist and cell cycle Test (MG)	17 Begin unit 7 Multicell I	18