

Biology K Lesson Plans Unit 1 19-20

UNIT OBJECTIVES: TEKS

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Unit 1: What is life: Life is organized into multiple levels, and we classify life today into domains and kingdoms based on shared characteristics, structures, functions, and relationships. All living things are made up of one or more cells, which are considered the fundamental units of life. In order to survive, an organism must be able to maintain homeostasis, acquire matter and energy, respond to their stimuli, create successive generations, and evolve. While all living things display the same basic ELFs, there is diversity in the characteristics that allow organisms to survive. The information coded in DNA determines an organism's traits and variability in the nucleotide sequences of DNA leads to differences among living things.

- (10) The student knows that biological systems are composed of multiple levels
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 - 10.C analyze the levels of organization in biological systems and relate the levels to each other and to the whole system
- (11) The student knows that biological systems work to achieve and maintain balance
- (9) The student knows the significance of various molecules involved in metabolic processes and energy conversions that occur in living organisms
 - 9.A compare the functions of different types of biomolecules, including carbohydrates, lipids, proteins, and nucleic acids
- (6) The student knows the role of nucleic acids
 - 6.B recognize that components that make up the genetic code are common to all organisms
 - 6.A identify components of DNA, identify [that] information for specifying the traits of an organism is carried in the DNA,
 - 8.C compare characteristics of taxonomic groups, including archaea, bacteria, protists, fungi, plants, and animals

Unit 1 Calendar:

Monday	Tuesday	Wednesday	Thursday	Friday
Aug. 26 ---handouts: Late work policy Safety contract Safety guide Course description Scope & sequence 9 weeks calendar	27 -NOS & Safety Stations Collect paperwork/contract	28 -NOS & Safety Stations Review safety guide (sometime this week)	29 - Quiz: safety rules (DG) ALL MUST MAKE 100 Day 1 Notes: LOO & Experimental design	30 Quiz: NOS/Safety Lab (AS) Finish Day 1 Notes
2 LABOR DAY HOLIDAY	3 -Notes: Characteristics of life & Domains Characteristics of life (foldable or card sort)	4 PEP RALLY/PARADE Finish foldable	5 Quiz- Chara. Of Life (DG) -Notes: biomolecules notes (chart)	6 HOME COMING -DNA keychains
9 -Biomolecules worksheet	10 Quiz: Biomolecules (DG) -Food label analysis worksheet	11 -Biomolecules lab (DG)	12 Review	13 UNIT 1 TEST Unit 1 Exam – Nature of Science, Cell Theory, and Chemistry of Life
17 Unit 2 -Intro to Ecosystems and Energy Flow	18	19	20	21

Lesson plans are subject to change. This plan can be used as a guide to the chapters that should be read and studied throughout the year. See textbook chapter for TEKS/TAKS objectives. A lesson plan calendar for each unit will be made available online to every student at the beginning of the new unit. You can access the calendar at www.cyfairbiology.weebly.com. Please make plans accordingly.