**DCSD Instructional Planning Instrument Focus on Teaching and Learning**

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| **LAKESIDE HIGH SCHOOL** | | | |
| **Weekly Components** | | | |
| **Teacher:**  **Co-Teacher/Para:** | Pastirik; Johnson; Hoover |  | 1/29/18 – 2/2/18 |
| **Course:** | Biology |  |  |
| **Essential Question(s): (address philosophical foundations; contain multiple answers; provoke**  **inquiry)** | When, Why, and How is today's material important to you? How may it be applied to the "real-world"? | | |
| **Priority Standards:**  **(content specific)** | SB1.  OBTAIN, EVALUATE, and COMMUNICATE information to analyze the nature of the relationships between structures and functions in living cells. | | |
| **Success Criteria:**  **(content specific)** | Finish Lab Mendelian Traits  Human Genetics project (a foldable)  Film/questions – M, R, and DNA | | |
| **Activating Strategy:**  **(content specific)** | Introductory discussion, posing of "what is, and what if" questions, followed by why and how? | | |
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 January 29, 2018; Monday

EOCT QOTD (End-of the Course Question-of-the Day): QOTD; SB1: Cells

16. Proteins are long chains of monomers or polymers

      made up of

      a. nucleotides.

     b. carbohydrates.

     c. amino acids.

     d. lipids.

Finish -  Lab: Mendelian Traits

(maybe) Handout: What the Heck are Genotype and Phenotype?

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January 30, 2018; Tuesday

EOCT QOTD (End-of the Course Question-of-the Day):  QOTD; SB3: Complexity

17. Scientists have discovered a new species of animals. Which would provide the best

      basis for classifying this  new species?

a. DNA comparison

b. Diet of the animal

c. Habitat of the animal

d. Appearance of the animal

Begin Project: Human Genetic Diseases

    6 part foldable for the following diseases: Cystic Fibrosis, Albinism, Galactosemia, Tay-Sachs Disease, Huntington's Disease, and Achondroplasia; for each of the listed diseases give the following information: Dominant or Recessive, Occurence in the U.S., Cause, Effect, Cure/Treatment.

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January 31, 2018; Wednesday

EOCT QOTD (End-of the Course Question-of-the Day): QOTD; SB2: Heredity

18. Sketch and label the DNA molecule.  Be sure to indicate the double-stranded, helical

      nature of  the molecule.  Sketch the complementary bases of A and T, C and G,

      indicate the location of deoxyribose and phosphate, and the hydrogen bonds. (p.331 for assistance)

 Finish Project Human Genetics Project

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February 1, 2018; Thursday

EOCT QOTD (End-of the Course Question-of-the Day): QOTD; SB4: Ecology/Energy

19. Symbiosis means “living together”.  List the three types of symbiosis, describe each,

      and give an example of each.

View NOVA: M, R and DNA with questions (DNA technology, etc.)

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February 2, 2018; Friday

EOCT QOTD (End-of the Course Question-of-the Day):

QOTD; SB5: Evolution

20. Which of the following best supports the idea that organisms and environments have

       changed over time?

a. the discovery of fossil ferns in Antarctica

b. the production of sterile hybrid animals such as the mule

c. the many different species of plants in tropical areas

d. the ability of many animals to learn new behaviors.

Pep Rally - let us see...