**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 |   |  2/5/18 – 2/9/18 |
| **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)**  |   Human Genetics project (a foldable) completed and graded Film/questions – M, R, and DNA DNA fingerprinting handoutACCESS testing Thursday (ESOL students only) |
| **Activating Strategy:** **(content specific)**  |  Introductory discussion, posing of "what is, and what if" questions, followed by why and how? |
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 February 5, 2018; Monday

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

21. Which of the following molecules provides the greatest amount of energy per gram

       when metabolized?

    a. carbohydrates

    b. nucleic acid

    c. protein

    d.    lipid

Start/Finish viewing:  NOVA: M, R and DNA with questions (DNA technology, etc.)

Check and grade project - Human Genetic Disorders

15 index cards for Friday, February 9, 2018

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February 6, 2018; Tuesday

EOCT QOTD (End-of the Course Question-of-the Day):  QOTD; SB5: Evolution

22. Contrast the terms: analogous and homologous structures.  Give two examples of

      each.  How do homologous structures support Darwin’s Theory of  Evolution?

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

Distribute Handout: DNA fingerprinting

15 index cards for Friday, February 9, 2018

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February 7, 2018; Wednesday

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

23. Changes to an organism’s DNA (mutations) can cause unexpected traits to be

      expressed (phenotypes) in the offspring.  DNA in an individual’s gametes

       will likely to be affected by:

a.      x-rays.

b.      loud sounds.

c.      magnetic fields.

d.      extreme temperature.

 Review Fingerprinting activity/handout if necessary

15 index cards for Friday, February 9, 2018

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February 8, 2018; Thursday

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

24. Cities and farmlands use a great deal of water.  What is one damaging effect of this

      use of water from the rivers?

a.      increased amounts of solid waste pollution in the oceans

b.      decreased amounts of fresh water in marshes and estuaries

c.      changes in local rainfall amounts

d.      changes in upstream water tables

15 index cards for Friday, February 9, 2018

ACCESS testing today (for ESOL students only); I will be assisting with testing.  5th period today, Ms. Maxwell - ninth grade counselor will be visiting and instructing the class.   Periods 2, and 6 will be ACCESS testing, and periods 3, and 4 will be viewing/answering questions to GPB video - Mitosis.

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February 9, 2017; Friday

EOCT QOTD (End-of the Course Question-of-the Day):  QOTD; SB5: Evolution

QOTD; SB5: Evolution

25. Some insects previously killed by pesticides (insecticides) are now developing (or

have developed) resistance. Pesticide resistance would most likely develop in insects that:

a. reproduce rapidly.

b. feed on few types of plants.

c. undergo complete metamorphosis.

d. live in very limited regions.

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

26. Which of the following environmental changes can cause an increase in the rates of

reactions in cells?

a. increased temperature.

b. decreased enzyme concentrations.

c. increase activation energy requirement.

15 index cards for Friday, February 9, 2018 - which is today!

Pep Rally - let us see...