Regents Biology

Off Site Learning Packet (pp.417-422, 428-435, 457-467, 441-446)

Assignment #2: ____/5

Assignment #3: ___/19

Crossword Puzzle: /23

North Salem High School

MISSION: Engage students to continuously learn, question, define and solve problems through critical and creative thinking.

Meiosis

(Sexual Reproduction) (pp.417-422, 428-435, 457-467, 441-446)

Now that you know how the body makes new, genetically identical cells, we will now take look at how your body makes the cells that make a baby. Sex cells or gametes are genetically different or unique and contain only HALF the number of chromosomes normally found in body cells.

Let's get to work!

If you have any problems - please sign up for extra help after school.

Mr. Collea
Room W-19

ASSIGNMENT #1

Please use <u>complete sentences</u> to answer each of the questions that IRECTIONS: follow. Please place all answers in the space provided. Briefly describe the process of Asexual reproduction (p. 417) Asexual reproduction involves only ONE parent cell. The parent cell divides to produce offspring with the SAME genetic makeup. Briefly describe the process of SEXxual reproduction (p. 417) Sexual reproduction requires two different parent cells from two different organisms or from two sexually different parts of a single organism. Sexual reproduction produces offspring that are genetically DIFFERENT from either parent. Define each of the following terms: (p. 417 - 418) 3. (a) Gametes - sex cells

(b) Fertilization - the fusion of the nuclei of the male and female gametes

(c) Zygote - ____the single cell formed from fertilization; fertilized egg cell

as the parent o	ell.
low are homolo	gous chromosomes similar? (p. 418 - 419)
lomologous ch	romosomes are similar in size and shape, and they have similar
enetic content	
Define each of the	ne following terms: (p. 419)
	ells that only contain ONE set of chromosomes (n)
a) Hapioid	
b) Diploid	ells that can contain TWO set or all of the homologous pairs of
ch	romosomes (2n)
·	
	each of the following processes important to meiosis: (p. 420)
Briefly describe	ne PAIRING of homologous chromosomes during Prophase-I of me
<u> </u>	
<u> </u>	
<u> </u>	
· · · · · · · · · · · · · · · · · · ·	the SFPARATION of homologous chromosomes during Prophase

ASSIGNMENT #2

Please use <u>complete sentences</u> to answer each of the questions that follow. Please place all answers in the space provided.

What are femal	e gonads called and what special cells do they produce? (p. 428)
Female gona	ds are called ovaries and they produce special cells called eggs
	gonads called and what special cells do they produce? (p. 428) are called testes and they produce special cells called sperm.
Male gonads	are called testes and they produce special cells called sperm.
Male gonads Define each of	are called testes and they produce special cells called sperm. the following terms: (p. 429)
Male gonads Define each of	are called testes and they produce special cells called sperm.
Male gonads Define each of	are called testes and they produce special cells called sperm. the following terms: (p. 429)