

AP Biology Chapter 13 (Meiosis)

alleles - different versions of genes (are on same part of chromosome for different parents)

Locus - where a gene is located on a chromosome

somatic - any cell except sex cells

homologous chromosomes - members of a pair of chromosomes; same size, same banding pattern, same centromere placement, same genes (matching chromosome from parents)

autosomes - the other 44 chromosomes, not including sex chromosomes

haploid cells - cells that have 1 of each type of chromosome; called egg and sperm

diploid - cells that have 2 of each chromosome (somatic cells)

gamete - reproductive cells which fuse in fertilization; (sperm and egg); carry hereditary traits to the offspring; develop from germ cells in the gonads (ovaries and testes)

zygote - cell resulting from union of egg and sperm

karyotype - lining up of chromosomes

How many chromatids are present in metaphase II in a cell undergoing meiosis from an organism in which $2n=24$? - 24

synapsis - when the two homologous pairs come together resulting in a tetrad

crossing over...(and what is the section called) - when homologous pairs synapse, they switch parts of their chromatids at points called chiasmata

Prophase I - chromosomes begin to condense, homologous pairs loosely pair up; crossing over; centrosomes movement, spindle formation and nuclear envelop breakdown; microtubules from one pole attach to the kinetochores of one pair of tetrads (two chromatids are attached to one kinetochore)

Metaphase I - arrange in metaphase plate; their lining up provides genetic variation (mother's chromosomes may be on one side along with a set of father's chromosomes)

Anaphase I - breakdown of proteins holding homologous pairs together; homologs move towards opposite poles; cohesions break down but centromere holds together

Ap Biology Chapter 13 Study Guide Answers

Kaplan Test Prep



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AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **AP Biology For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart hard working and ambitious All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That's where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust your exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed **AP Biology Prep Plus 2020 & 2021** Kaplan Test Prep, 2020-07-07 Kaplan's AP Biology Prep Plus 2020 2021 is revised to align with the latest exam This edition features hundreds of practice questions in the book complete explanations for every question and a concise review of high yield content to quickly build your skills and confidence Test like practice comes in 3 full length exams 16 pre chapter quizzes and 16 post chapter quizzes Customizable study plans ensure that you make the most of the study time you have We're so confident that AP Biology Prep Plus offers the guidance you need that we guarantee it after studying with our online resources and book you'll score higher on the AP exam or you'll get your money back To access your online resources go to kaptest.com moreonline and follow the directions You'll need your book handy to complete the process The College Board has announced that the 2021 exam dates for AP Biology will be May 14 May 27 or June 11 depending on the testing format Each school will determine the testing format for their students Expert Guidance We know the test our AP experts make sure our practice questions and study materials are true to the exam We know students every explanation is written to help you learn and our tips on the exam structure and question formats will help you avoid surprises on Test Day We invented test prep Kaplan kaptest.com has been helping students for 80 years and 9 out of 10 Kaplan students get into one or more of their top choice colleges **Princeton**

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