

AP Biology Ch. 10 Meiosis and Sexual Life Cycles

Key concepts

- 10.1 Offspring acquire genes from parents by inheriting chromosomes.
- 10.2 Fertilization and meiosis alternate in sexual life cycles.
- 10.3 Meiosis reduces the number of chromosome sets from diploid to haploid.
- 10.4 Genetic variation produced in sexual life cycles contributes to evolution.
1. Heredity is the transmission of traits from one generation to the next.
 2. Variation - exists in populations that reproduce sexually, offspring are not identical to their parents.
 3. Genetics is the scientific study of heredity and hereditary variation.
 4. Each parent passes on 23 chromosomes to their offspring. These chromosomes are made up of many sections of DNA called genes.
 5. All of an individual's genes are called their genome.
 6. In animals and plants, reproductive cells called gametes are the vehicles that transmit genes from one generation to the next.
 7. Except for small amounts of DNA in the mitochondria and chloroplasts, the DNA of a eukaryotic cell is packaged into chromosomes in the nucleus.
 8. One chromosome has between several hundred to a few thousand genes.
 9. A gene's specific location along the length of a chromosome is called the gene's locus (loci).
 10. Asexual reproduction is when a single individual gives rise to offspring:
 - These offspring are identical to their parent.
 - This type of reproduction occurs through the process of mitosis
 - Variation can occur through mutations
 - Some multi-celled organisms can reproduce this way through cloning (hydra)

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The Princeton Review



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Biology, Science and Life Wallace, Tietjen, 1996 *Concepts in Biology'* 2007 Ed. 2007 Edition , *Princeton Review AP Biology Premium Prep, 28th Edition* The Princeton Review, 2025-08-05 PREMIUM PRACTICE FOR A PERFECT 5 WITH THE MOST PRACTICE ON THE MARKET Ace the newly digital AP Biology Exam with The Princeton Review's comprehensive study guide Includes 6 full length practice exams more than any other major competitor timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Comprehensive content review for all test topics Online digital flashcards to review core content Study plans a handy list of key terms and concepts and more via your online Student Tools Premium Practice for AP Excellence 6 full length practice tests 3 in the book 3 online with detailed answer explanations Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking the exam interface Practice drills in each content review chapter plus end of chapter key term lists *Introduction to Genetics* Sandra Pennington, 2009-07-17 The 11th Hour Series of revision guides are designed for quick reference The organization of these books actively involves students in the learning process and reinforces concepts At the end of each chapter there is a test including multiple choice questions true false questions and short answer questions and every answer involves an explanation Each book contains icons in the text indicating additional support on a dedicated web page Students having difficulties with their courses will find this an excellent way to raise their grades Clinical correlations or everyday applications include examples from the real world to help students understand key concepts more readily Dedicated web page there 24 hours a day will give extra help tips warnings of trouble spots extra visuals and more A quick check on what background students will need to apply helps equip them to conquer a topic The most important information is highlighted and explained showing the big picture and eliminating the guesswork After every topic and every chapter lots of opportunity for drill is provided in every format multiple choice true false short answer essay An easy trouble spot identifier demonstrates which areas need to be reinforced and where to find information on them Practice midterms and finals prep them for the real thing *Heredity*, 1947 **Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its

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