

BIO FINAL STUDY GUIDE

1. What does DNA stand for? _____
2. In 1928, British scientist _____, was trying to figure out how bacteria made people sick.
3. How did this scientist kill the bacteria? _____
4. What caused the mice to die in his experiments? _____
5. _____ is the process in which one strand of bacteria seemed to transfer into another strain.
6. Avery and other scientists discovered that the _____ stores and transmits the genetic information from one generation of an organism to the next.
7. American scientists, _____ and _____, studied a virus that infects bacteria called a _____. These virus consist of a _____ or _____ core and a _____ coat.
8. These two American scientists concluded that the genetic material of a bacteriophage was _____, and not protein.
9. Three things a gene needs to do is:
 - _____
 - _____
 - _____
10. DNA is made up of units called _____, which are composed of three things:
 - _____
 - _____
 - _____
11. There are four types of _____;
 - Purines:
 - _____
 - _____
 - Pyrimidines:
 - _____
 - _____
12. The DNA back bone is made of the _____ and _____ groups.
13. The four _____ of DNA were like the letters of the alphabet.
14. Chargaff's rule states the relationship between nucleotides. A purine pairs up with a pyrimidine. Adenine will always pair with _____. The purine Guanine always pairs with the pyrimidine _____.
15. In the 19850's, the British scientist _____ used X-ray diffraction to figure out some important clues about DNA structure, such as the fact that it was made of two strands and was in a twisted form.
16. Watson and Crick used clue's from the above scientist to make a model of DNA we call the _____, which consists of two strands twisted around each other.
17. The type of bond that holds nitrogenous bases together is called a _____.
18. This principle of nitrogenous bases pairing up with certain nitrogenous bases is called _____.
19. The process in which DNA copies itself before a cell divides is called _____, in which DNA separates its 2 strands, producing complementary strands following the rules of base-pairing. Each strand of the double helix serves as a template for new strands.
20. The enzyme that "unzips" the DNA strand is called _____.
21. RNA stands for _____.
22. In RNA the nitrogenous bases are the same as in DNA EXCEPT the pyrimidine thymine is replaced with _____, which is only found in RNA.
23. There area 3 types of RNA:
 - o _____; carry instructions to make amino acids
 - o _____; proteins combined with this RNA ribosomes
 - o _____; transfers amino acids to ribosomes to make protein
24. _____ are coded DNA instructions that control the production of proteins within the cell.
25.

DNA

transcription
→

mRNA

translation
→

protein

Biology Benchmark Final Exam Study Guide

Tiffany Roy, Tatum Price



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Keep It Real With PBL, Secondary Jennifer Pieratt, 2019-12-19 Let's Get Real About PBL The book's companion website features an updated guide to help teachers integrate technology into PBL experiences for online and blended learning instruction Does project based learning PBL feel just out of reach in your secondary classroom Is project planning an overwhelming project in and of itself Dr Jennifer Pieratt a consultant and former teacher knows firsthand how challenging designing projects can be especially for secondary teachers with large caseloads and short class periods to engage in meaningful teaching and learning In this hands on interactive guide Pieratt supports secondary teachers through the iterative process of planning authentic project based learning experiences Using backward design she gives teachers ready to use strategies for identifying the best concepts to tackle in PBL experiences brainstorming realistic projects facilitating meaningful learning and creating formative and summative assessments The book is visually accessible in style and features reallife soundbites that tackle the challenges to implementing PBL Tips and resources to support the project planning process Planning forms to guide you through planning your projects Key terminology and acronyms in PBL Exercises to help you reflect and process throughout your project plans Master PBL planning with this clear efficient and easy to use guide to creating enriching experiences for your students Advanced Placement Biology: Study and Review Cybellium

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Centering Humanism in STEM Education Bryan Dewsbury, Susannah McGowan, Sheila S. Jaswal, Desiree Forsythe, 2024-09-24 Research demonstrates that STEM disciplines perpetuate a history of exclusion particularly for students with marginalized identities This poses problems particularly when science permeates every aspect of contemporary American life Institutions repeated failures to disrupt systemic oppression in STEM has led to a mostly white cisgender and male scientific workforce replete with implicit and or explicit biases Education holds one pathway to disrupt systemic linkages of STEM oppression from society to the classroom Maintaining views on science as inherently objective isolates it from the world in which it is performed STEM education must move beyond the transactional approaches to transformative environments manifesting respect for students social and educational capital We must create a STEM environment in which students with marginalized identities feel respected listened to and valued We must assist students in understanding how their positionality privilege and power both historically and currently impacts their meaning making and understanding of STEM

Energy Research Abstracts, 1989

Resources in Education, 2001

Human-Computer Interaction Andrew Sears, Julie A. Jacko, 2009-03-02 Hailed on first publication as a compendium of foundational principles and cutting edge research The Human Computer Interaction Handbook has become the gold standard reference in this field Derived from select chapters of this groundbreaking resource Human Computer Interaction The Development Practice addresses requirements specification design and development and testing and evaluation activities It also covers task analysis contextual design personas scenario based design participatory design and a variety of evaluation techniques including usability testing inspection based and model based evaluation and survey design The book includes contributions from eminent researchers and professionals from around the world who under the guidance of editors Andrew Sear and Julie Jacko explore visionary perspectives and developments that fundamentally transform the discipline and its practice

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