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Objectives: -

Identify the cell

organelles that are

involved in cell

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division -
Familiarized with
the role of each cell
structure What
organelle What
does it look like Is
it present? (Place a
check) What does it
do What does it
carry Prokaryotic
cell Eukaryotic cell
...

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#1 page 2
Interphase: Place
one strand of each

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color near the center of your work area. (Recall that chromosomes at this stage would exist as diffuse chromatin and not as visible structures.) DNA synthesis occurs during interphase and each chromosome, originally composed

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of one strand, is now made up of two strands, or chromatids,

AP BIOLOGY
NAME HEREDITY -
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5.1 Meiosis 1.B
Explain biological
concepts and/or
processes. 5.2
Meiosis and Genetic
Diversity 3.A

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Identify or pose a testable question based on an observation, data, or a model. EVO-2, IST-1 5.3

Mendelian Genetics

5.C Perform chi-square hypothesis testing. 6.E.c

Predict the causes or effects of a change

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Gregor Mendel studied inheritance of traits in pea plants. He proposed a model where pairs of "heritable elements," or genes, specified traits. Genes come in different versions, or alleles. A dominant allele hides a recessive

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allele and
determines the
organism's
appearance.

Mendel's law of
segregation |
Genetics (article) |
Khan ...

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6/ Date: period:

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Essential Question:

Why do some

people look like

their

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Answer Key -

Name 9 F 6 Date
Activity 1
period ...

Answers

Activity 9.2 asks us to conduct an experiment to prove that the genotypic ratio in the f₂ generation is 1:2:1. Answer: We cross each of the seeds obtained in the f₂ generation with a pure

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Recessive variety to confirm the genotypic ratio.

Explanation: In Mendelian inheritance, we get a phenotypic ratio of 3:1 and genotypic ratio of 1:2:1.

Activity 9.2 NCERT
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This worksheet can be used to introduce the topic of chromosomes, genes and DNA (with teacher explanation) or could be used as part of a recap lesson. Interactive versions of the tasks and answers included. Example tasks. Complete the

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sentences using
keywords to create
a summary.

Dominoes game - to
complete the
definitions.

Chromosomes,
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answers

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Key Analysis

Huntington ' s
Disease 1. 0%

chance that their
children will have
the disease. Since
neither of them
have the disease,
they are both
recessive for the
gene. 2.

Heterozygous
Cystic Fibrosis 1.
50% chance that

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their child will not have the disease. 2.

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4} = 25\%$$

chance Application

1. a.

Genetic Counseling
Name:

(secondary to HS-LS3-1) (Note: This Disciplinary Core Idea is also addressed by HS-LS1-1.) LS3.A:

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Inheritance of
Traits • Each
chromosome
consists of a single
very long DNA
molecule, and each
gene on the
chromosome is a
particular segment
of that DNA.

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and community
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describes how
evolution reveals
both the great
diversity and
similarity among
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explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand

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specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients.

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These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Experiments which in previous years were made with

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ornamental plants have already afforded evidence that the hybrids, as a rule, are not exactly intermediate between the parental species. With some of the more striking characters, those, for instance, which relate to the form

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and size of the leaves, the pubescence of the several parts, etc., the intermediate, indeed, is nearly always to be seen; in other cases, however, one of the two parental characters is so preponderant that it is difficult, or quite impossible, to

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detect the other in
the hybrid. from 4.
The Forms of the
Hybrid One of the
most influential and
important scientific
works ever written,
the 1865 paper
Experiments in
Plant Hybridisation
was all but ignored
in its day, and its
author, Austrian
priest and scientist

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(1822-1884), died before seeing the dramatic long-term impact of his work, which was rediscovered at the turn of the 20th century and is now considered foundational to modern genetics. A simple, eloquent

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description of his
1856-1863 study of
the inheritance of
traits in pea
plants. Mendel
analyzed 29,000 of
them. This is
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carcinogens
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determination, sex
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libraries, DNA sequencing, DNA technology applications, expressing cloned genes, gel electrophoresis and southern blotting, gene cloning, polymerase chain reaction, restriction enzymes, safety and ethics of DNA technology, and

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stem cells. Practice
test Transcription
Activity 1
MCQ PDF with
Answers
answers to solve
MCQ questions:
Mechanism of
transcription,
ribozymes and
splice, ribozymes
and splice, RNA
processing in
eukaryotes, introns
and exons, transfer
and ribosomal RNA.

Download Ebook Biology Heredity

This text takes you through the fundamental principles of cell biology and genetics in a comprehensive yet concise integrated format. Fully updated with improved layout, it provides the essential concepts

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of cell biology and molecular genetics in a memorable, easy-to-understand format.

The tools of molecular biology have revolutionised our understanding of gene structure and function and changed the teaching of genetics

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in a fundamental way. The transition from classical genetics to molecular genetics was initiated by two discoveries. One was the discovery that DNA has a complementary double helix structure and the other that a universal genetic

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code does exist.

Both led to the acceptance of the central dogma that RNA molecules are made on DNA templates. The last twenty years have seen remarkable growth in our knowledge of molecular genetics, most of which is the outcome of

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recombinant DNA technology. This technology which is not limited to cloning, sequencing, and expression has created a biotechnology industry of its own, the purpose of which is to develop new diagnostic and therapeutic approaches in

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medicine. Both industries in collaboration with the biomedical community are now engaged in laying down the foundation of molecular medicine. The present volume seeks to provide a coherent account of the new science of molecular genetics.

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Its content however is by no means exhaustive, partly because of the publication explosion but more because of space restrictions. A rudimentary knowledge of genetics on the reader's part is assumed. Quite understandably,

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considerable
emphasis is placed
on major technical
advances but not
without expounding
numerous new
ideas and
phenomena
including alternative
splicing, POR, DNA
methylation,
genomic imprinting,
and so on.

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This workbook is a companion to the introductory college-level textbook, *Molecular Biology: Concepts for Inquiry*. The workbook contains inquiry explorations that have been designed for use in the classroom, but could also be used for individual study.

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It is appropriate for college courses and high school courses taught at the college level.

CLASSROOM

ACTIVITIES:

Students explore evidence through logic to construct an understanding of concepts and eliminate misconceptions.

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Students elaborate on their understanding by applying it to new situations. These activities are intended to be conducted in a classroom where an instructor periodically guides student thinking in small groups and leads class

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discussions of key concepts following activities. Inquiry activities include:

introductory

biochemistry, how proteins contribute to modes of

inheritance, the

structure and

function of

fluorescent

proteins, the

conceptual basis of

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PCR, the function of restriction enzymes and their use in engineering, the design of the mutagenesis of fluorescent proteins through Gibson assembly, analysis of an iGEM device, the design of a Golden Gate assembly of gene parts, epigenetic

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Heredity
Activity 1
Answers

inheritance in
imprinted diseases,
analysis of the
genetics of cancer
(childhood vs. adult;
inherited
predisposition vs.
sporadic), genome
instability at
telomeres,
evaluation of next-
generation DNA
sequencing
strategies, and the

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design of a CRISPR RNA to cure a genetic disease. A subset of the class activities focuses on pre- or post-experiment analyses that could either stand alone or could be used as a conceptual framework around which experiments could be conducted.

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Suggested

experiments and other supporting materials are provided on the author's website, <https://hackettmolecularbiology.blogspot.com/>. Because the paperback workbook is printed in black and white to reduce cost to the student, color

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Images for the one activity (fluorescent proteins) that would be best in color are also provided on the author's website and the Kindle eBook includes these images in color. CLASSROOM DISCUSSION QUESTIONS: These open-ended

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questions serve as the basis for class discussions following Molecular Biology: Concepts for Inquiry textbook reading assignments. These readings and discussions substitute for most direct lecture in explaining concepts and they are also

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accompanied by
online self-
assessment reading
comprehension
quizzes. The author
will distribute quiz
questions to
instructors for their
own editing and
distribution or
individuals may
take the author's
version of quizzes.

UNIT SELF-

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ASSESSMENTS:

Students can assess their overall conceptual understanding through these assessment questions and the answers that are provided.

APPENDICES AND REFERENCE

MATERIALS: Self-assessment

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Answers, guidelines
for basic molecular
biology laboratory
techniques including
PCR and restriction
digests,
explanations of the
function of bacterial
and phage
promoters
commonly used in
engineering, list of
commonly-used
restriction

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enzymes,
structures of amino
acids, genetic code,
periodic table, and
other references.

AUTHOR RECOMM
ENDATIONS: 1)

Because it is
intended that
students will write
in this workbook,
purchasing the
paperback version
is recommended.

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The Kindle eBook is available as a free MatchBook after purchase of the paperback. 2) If you are studying on your own instead of using this workbook as part of a class, you might consider purchasing the teacher's guide, Molecular Biology Concepts for

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Inquiry: A Guide to Inquiry. The teacher's guide, available June-July 2019, will contain the contents of this workbook, answers, commentary, and notes to the teacher about how to teach Molecular Biology through Inquiry and suggestions on how to guide students in

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the classroom.

Activity 1

It has been
Answers
recognized for
almost 200 years
that certain families
seem to inherit
cancer. It is only in
the past decade,
however, that
molecular genetics
and epidemiology
have combined to
define the role of

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inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have subsequently

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been proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in The

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Genetics of Cancer

illustrate what has
already been

achieved and take a
critical look at the
future directions of
this research and
its potential clinical
applications.

MCAT Biology

Multiple Choice

Questions and

Answers (MCQs):

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MCQs. "MCAT
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carbohydrates,
citric acid cycle,
DNA replication,
enzyme activity,
enzyme structure
and function,
eukaryotic

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chromosome
organization,
evolution, fatty
acids and proteins
metabolism, gene
expression in
prokaryotes,
genetic code,
glycolysis,
gluconeogenesis
and pentose
phosphate pathway,
hormonal regulation
and metabolism

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translation, meiosis
and genetic
viability, men Delian
concepts,
metabolism of fatty
acids and proteins,
non-enzymatic
protein function,
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structure and
function, oxidative
phosphorylation,
plasma membrane,

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Enzyme Structure

and Function MCQs

Chapter 8:

Eukaryotic

Chromosome

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Acids and Proteins

Metabolism MCQs

Chapter 11: Gene
Expression in

Prokaryotes MCQs

Chapter 12: Genetic
Code MCQs Chapter

13: Glycolysis,
Gluconeogenesis
and Pentose

Phosphate Pathway

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Regulation and

Metabolism

Integration MCQs

Chapter 15:

Translation MCQs

Chapter 16: Meiosis

and Genetic

Viability MCQs

Chapter 17:

Mendelian Concepts

MCQs Chapter 18:

Metabolism of Fatty

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Chapter 25: Protein
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Chapter 26:
Recombinant DNA
and Biotechnology
MCQs Chapter 27:
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Practice "DNA

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with answers PDF
to solved MCQs test
questions: DNA
molecules
replication,
mechanism of
replication,
mutations repair,
replication and
multiple origins in
eukaryotes, and
semiconservative
nature of

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"Genetic Code
Activity 1
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questions: Central
dogma, degenerate
code and wobble
pairing, initiation
and termination
codons, messenger
RNA, missense and
nonsense codons,
and triplet code.

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reactions,
equilibrium

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constant,
flavoproteins, Le
Chatelier's
principle, soluble
electron carriers,
and spontaneous
reactions. and many
more chapters!

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