

NAME \_\_\_\_\_

## Mutations Worksheet

### Deletion, Insertion & Substitution



There are several types of mutations:

- > **DELETION** (a base is lost/deleted)
  - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **INSERTION** (an extra base is added/inserted)
  - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **SUBSTITUTION** (one base is substituted for another)
  - If a substitution **changes** the amino acid, it's called a **MISSENSE** mutation
  - If a substitution **does not change** the amino acid, it's called a **SILENT** mutation
  - If a substitution **changes the amino acid to a "stop,"** it's called a **NONSENSE** mutation



Complete the boxes below. Classify each as **Deletion**, **Insertion** or **Substitution** **AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & Insertion will always be frameshift).

Original DNA Sequence: T A C A C C T T G G C G A C G A C T ...

mRNA Sequence: A U G U G G A A C C G C U G C U G A

Amino Acid Sequence: MET - TRP - ASN - ARG - CYS - STOP

Mutated DNA Sequence #1 T A C A T C T T G G C G A C G A C T ...

What's the mRNA sequence? A U G U A G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

Mutated DNA Sequence #2 T A C G A C C T T G G C G A C G A C T ...

What's the mRNA sequence? A U G C U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? yes What type of mutation is this? insertion - frameshift

Mutated DNA Sequence #3 T A C A C C T T A G C G A C G A C T ...

What's the mRNA sequence? A U G U G G A A T C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? no What type of mutation is this? point mutation - silent

Mutated DNA Sequence #4 T A C A C C T T G G C G A C T A C T ...

What's the mRNA sequence? A U G U G G A A C C G C U G A U G A (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

# Mutations And Genetic Conditions Unit 7 Lesson 2

## Answers

**James Hall Zimmerman, Sophie E.  
Merritt**



## **Mutations And Genetic Conditions Unit 7 Lesson 2 Answers:**

*Adventures* Mick Gammidge, Ben Wetz, 2005-08 *Adventures* builds students confidence through the use of clear grammar presentations varied practice exercises and guided skills work The highly motivating topics have been carefully chosen to appeal to teenagers The clear syllabus offers an analytical approach to grammar as well as extensive and varied practice Strong emphasis is placed on skills development and study skills There is a systematic approach to vocabulary building The variety of challenging and enjoyable activities motivate students to participate fully in class The optional World of English sections exploit functional and everyday language cross cultural topics and authentic pop songs Advanced Pre-Med Studies Parent Lesson Plan ,2013-08-01 Advanced Pre Med Studies Course Description Semester 1 From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In *Exploring the History of Medicine* author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in *The Genesis of Germs* He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ Semester 2 *Body by Design* defines the basic anatomy and physiology in each of 11 body systems from a creationist viewpoint Every chapter explores the wonder beauty and creation of the human body giving evidence for creation while exposing faulty evolutionist reasoning Special explorations into each body system look closely at disease aspects current events and discoveries while profiling the classic and contemporary scientists and physicians who have made remarkable breakthroughs in studies of the different areas of the human body Within *Building Blocks in Life Science* you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource

helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process Basic Pre-Med Parent Lesson Plan ,2013-08-01 Basic Pre Med Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Microbiology As the world waits in fear world health organizations race to develop a vaccine for the looming bird flu epidemic a threat that has forced international federal and local governments to begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in this revealing and detailed book He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man s sin and the hope we have in the coming of Jesus Christ Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process CK-12 Biology Teacher's Edition CK-12 Foundation,2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook **Science of Life: Biology Parent Lesson Plan** ,2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to

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*College Biology I* James Hall Zimmerman, Sophie E. Merritt, 1963      **South-Western GED Science** Fern Burch, 1995      Cumulated Index Medicus , 1998      **Science** John Michels (Journalist), 2005      *Films and Other Materials for Projection* Library of Congress, 1958      *The National Union Catalog* Library of Congress, 1958 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips      **National Union Catalog** , 1963

**Bowker's Complete Video Directory 1996** R R Bowker Publishing, 1996-03      *Bulletin of the Atomic Scientists* , 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Bulletin of the Atomic Scientists** , 1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      *The Compact Edition of the Oxford English Dictionary* Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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