

HOLT MODERN CHEMISTRY – CHAPTER 1 REVIEW

The following pages contain the bulk (but not all) of the information for the chapter 1 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and NOTHING else, you should at least be able to PASS the test.
****** Test items will be recall, examples, and/or application of this content. ******

OUTCOMES

- 1.1: Distinguish between types of research – basic, applied, and technological development. (F & PK)
- 1.2: Distinguish between the physical and chemical properties of matter. (F & PK)
- 1.2: Distinguish among homogeneous and heterogeneous mixtures, elements, and compounds. (F & PK)
- 1.3: List properties of metals and non-metals. (T & R)
- 2.3: Determine significant figures. (F & PK)

1.1: CHEMISTRY IS A PHYSICAL SCIENCE

- **Vocabulary**
 - **chemistry** – the scientific study of the composition, structure, and properties of matter and the changes that matter undergoes
 - **chemical** – any substance with a defined composition
- **Chapter Highlights**
 - Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes.
 - A chemical is any substance that has a definite composition or is used or produced in a chemical process.
 - Basic research is carried out for the sake of increasing knowledge. Applied research is carried out to solve practical problems. Technological development involves the use of existing knowledge to make life easier or more convenient.

1.2: MATTER AND ITS PROPERTIES

- **Vocabulary**
 - **matter** – anything that has mass and takes up space
 - **mass** -- a measure of the amount of matter in an object
 - **element** – a substance that cannot be separated or broken down into simpler substances by chemical means; all atoms of an element have the same atomic number
 - **atom** – the smallest unit of an element that maintains the chemical properties of that element
 - **compound** -- a substance made up of atoms of two or more different elements joined by chemical bonds
 - **extensive property** -- a property that depends on the extent or size of a system
 - **intensive property** -- a property that does not depend on the amount of matter present, such as pressure, temperature, or density
 - **physical property** -- a characteristic of a substance that does not involve a chemical change, such as density, color, or hardness
 - **physical change** -- a change of matter from one form to another without a change in chemical properties
 - **change of state** -- the change of a substance from one physical state to another
 - **solid** -- the state of matter in which the volume and shape of a substance are fixed
 - **liquid** -- the state of matter that has a definite volume but not a definite shape
 - **gas** -- a form of matter that does not have a definite volume or shape
 - **plasma** -- in physical science, a state of matter that starts as a gas and then becomes ionized; it consists of freemoving ions and electrons and it takes on an electric charge
 - **chemical property** -- a property of matter that describes a substance's ability to participate in chemical reactions
 - **chemical change** -- a change that occurs when one or more substances change into entirely new substances with different properties
 - **chemical reaction** -- the process by which one or more substances change to produce one or more different substances
 - **reactant** -- a substance or molecule that participates in a chemical reaction
 - **product** -- a substance that forms in a chemical reaction

Holt Modern Chemistry 6 Review Answer Key

Albert A Gayle



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, 1988 **The Utah Educational Review**, 1955 Technical Book Review Index, 1927 **Saturday Review of**
Literature, 1926 *The Bookseller*, 1922 **El-Hi Textbooks & Serials in Print, 2005**, 2005 *The Publishers' Trade*
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observing mitosis lab background in a growing plant root the cells at the tip of the root are constantly dividing to allow the root to grow because each cell divides independently of the others a root tip contains cells at different stages of the cell cycle this makes a root tip an excellent tissue to study the stages of cell division

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these regions of growth are good for studying the cell cycle because at any given time you can find cells that are undergoing mitosis in order to examine cells in the tip of an onion root a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible the cells you ll be looking at in this activity

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compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells both start with diploid 2 sets of chromosomes o interphase occurs before both duplicating chromosomes before division o both mitosis and meiosis go through pmat prophase metaphase anaphase telophase meiosis goes through pmat twice i

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the cell cycle results in the formation of two genetically identical daughter cells from the division of a parent cell in this lab you will be observing plant cells onion in the various stages of mitosis and make time calculations based on the data you collect

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observing mitosis analysis and conclusion questions 1 mitosis is much the same in animal cells as in the plant cells you have examined what can you infer from this about the origins of mitosis a i can infer that the start of cell all came from one cell and where that cell came from we do not know but it was the start from that cell it when through the process of binary fission

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mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis questions to further your understanding of the eukaryotic cell cycle pre lab

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sep 14 2021 the process of mitosis is only a short period of the lifespan of cells mitosis is traditionally divided into four stages prophase metaphase anaphase and telophase the actual events of mitosis are not discreet but occur in a continuous sequence separation of mitosis into four stages is merely convenient for our discussion and organization

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jul 25 2019 procedure 1 create a data table with the following headings across the top number of cells percentage of all cells time min and the stages of mitosis down the side prophase metaphase anaphase telophase 2 carefully put the slide on the microscope and focus it under low power 40x is preferred 3

dna observing mitosis name siti nur fazlina noordeen - Mar 07 2022

feb 23 2022 many cells will be in various stages of mitosis number of words 244 words aim to study the image of onion cells under a microscope and identify actively dividing cells throughout mitosis during the cell cycle s phases materials and methods refer to the practical activity handout dna observing mitosis results

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discuss the answers to the questions with a partner think pair share and then the class activity 2 observe the stages of mitosis in onion root cells plant cells also use mitosis for growth maintenance and repair

lab 8 the modeling and microscopic observation of mitosis and - Nov 15 2022

after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells

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the onion root is also a good place because this is the area where the plant is growing remember that when cells divide each new cell needs an exact copy of the dna in the parent cell this is why mitosis is only visible in cells that are dividing like the whitefish embryo and the onion root tip mitosis can take several hours to complete

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exercise 1 observing mitosis under the microscope examine prepared slides of both plant cells onion allium root tip and animal cells whitefish blastula under the microscope at 400x

onion root tip mitosis stages experiment and results - May 09 2022

in general mitosis occurs through several stages that include prophase divided into prophase and prometaphase metaphase anaphase telophase because of the rapid rate at which onion root tips grow as a result of rapid cell division it is possible to observe and identify the different stages of mitosis

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feb 7 2017 view under a microscope and identify the stages of mitosis results calculations the percentage of cells in each stage of mitosis can be observed and noted down a mitotic index can also be formed number of cells containing visible chromosomes total number of cells in the field of view conclusion

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exercise 2 observing mitosis in cells in this exercise you will observe the steps of mitosis in both plant and animal cells procedure review the images of onion root tip cells undergoing the different phases of mitosis shown in figure 10 figure 10 *study of mitosis in onion root tip cells cell division process* - Jun 10 2022

to study and demonstrate the mitotic type of cell division using the onion root tip cells mitosis results in the formation of two daughter cells that are identical to each other learn how the experiment is carried out

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