

## 10.3 Regulating the Cell Cycle

### Lesson Objectives

-  Describe how the cell cycle is regulated.
-  Explain how cancer cells are different from other cells.

### Lesson Summary

**Controls on Cell Division** Dozens of proteins regulate the cell cycle.

- ▶ **Cyclins** are proteins that regulate the timing of the cell cycle in eukaryotic cells.
- ▶ Regulatory proteins work both inside and outside of the cell.
  - Internal regulators allow the cell cycle to proceed when certain events have occurred within a cell.
  - External regulators called **growth factors** stimulate the cell cycle. Other external regulators cause the cell cycle to slow down or stop.
- ▶ **Apoptosis** is programmed cell death that plays a key role in the development of tissues and organs.

**Cancer: Uncontrolled Cell Growth** **Cancer** is a disorder in which cells divide uncontrollably, forming a mass of cells called a **tumor**.

- ▶ Cancers are caused by defects in genes that regulate cell growth.
- ▶ Treatments for cancer include:
  - removal of cancerous tumors.
  - radiation, which interferes with the copying of DNA in multiplying cancer cells.
  - chemotherapy, which is the use of chemicals to kill cancer cells.

### Controls on Cell Division

*For Questions 1–6, write True if the statement is true. If the statement is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 1. Cells tend to continue dividing when they come into contact with other cells.
- \_\_\_\_\_ 2. Cell division speeds up when the healing process nears completion.
- \_\_\_\_\_ 3. Proteins called growth factors regulate the timing of the cell cycle in eukaryotic cells.
- \_\_\_\_\_ 4. If chromosomes have not attached to spindle fibers during metaphase, an internal regulatory protein will prevent the cell from entering anaphase.
- \_\_\_\_\_ 5. Growth factors are external regulatory proteins that slow down the cell cycle.
- \_\_\_\_\_ 6. Once apoptosis is triggered, a cell proceeds to self-destruct.

# Regulating The Cell Cycle Worksheet Answers

**ML Morrison**



## **Regulating The Cell Cycle Worksheet Answers:**

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bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates sustainability concepts into the various bioprocesses     **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2002     *Addison-Wesley Science Insights* ,1996     *Science Insights* ,1999     Financial Accounting Kenneth H. Johnson,1991     *Publications of the National Bureau of Standards, 1979 Catalog* United States. National Bureau of Standards,1980     Holt Science and Technology Holt Rinehart & Winston,2004-02     **Science** John Michels (Journalist),2003 A weekly record of scientific progress     *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03     **Accounting Fundamentals for Health Care Management** Steven A. Finkler,David M. Ward,Thad Calabrese,2018-01-29 Accounting Fundamentals for Health Care Management is ideal for an introductory course in financial accounting in both undergraduate and graduate programs With a focus on basic accounting in health care management this essential book contains the vocabulary of and an introduction to the tools and concepts employed by finance officers Students will learn how to assess financial information ask the appropriate questions and understand the jargon laden answers     **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02

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web apr 22 2020 molar volume of gases 1 counting in moles one mole is defined as 6.02 x 10<sup>23</sup> particles this is the avogadro number an unchanging constant whether you are counting hydrogen atoms carbon dioxide molecules or carbonate ions a mole is always 6.02 x 10<sup>23</sup> but as different particles have different mass their molar mass varies

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temperature and pressure

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web the molar volume has the si unit of cubic metres per mole  $\text{m}^3 \text{mol}^{-1}$  although it is more typical to use the units cubic decimetres per mole  $\text{dm}^3 \text{mol}^{-1}$  for gases and cubic centimetres per mole  $\text{cm}^3 \text{mol}^{-1}$  for liquids and solids

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web zero degrees celsius or 273 k is defined as standard temperature and one atmosphere or 760 mm hg is defined as standard pressure the volume occupied by one mole of a gas is called molar volume therefore the molar volume of a gas at standard temperature and pressure stp is 22.4 l

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web at standard temperature and pressure stp the molar volume  $V_m$  is the volume occupied by one mole of a chemical element or a chemical compound it can be calculated by dividing the molar mass  $M$  by mass density  $\rho$  molar gas volume is one mole of any gas at a specific temperature and pressure has a fixed volume molar volume formula

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web jun 8 2023  $V = 1.00 \text{ mol} \times 0.08206 \text{ L atm mol}^{-1} \text{ K}^{-1} \times 273 \text{ K} = 22.4 \text{ L}$  in other words 1 mole of a gas will occupy 22.4 L at STP assuming ideal gas behavior at STP the volume of a gas is only dependent on number of moles of

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