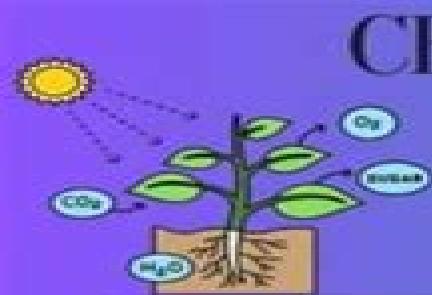


# CELLULAR RESPIRATION & PHOTOSYNTHESIS

## GUIDED NOTES



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### Cellular Respiration vs. Photosynthesis

Name: \_\_\_\_\_ Date: \_\_\_\_\_

#### What is Cellular Respiration?

- Cellular respiration is the process that occurs in **all** cells of the body.
- It breaks down **glucose** from our food to create **energy**.
- The main purpose of cellular respiration is to provide **body** for use.

#### What is Photosynthesis?

- Photosynthesis is the process that occurs in **plants**.
- Plants use **sunlight energy**, **water**, and **carbon dioxide** to make their own food.
- The purpose of photosynthesis is to make **energy**.

#### Comparing the Two Processes

Feature	Photosynthesis	Cellular Respiration
Where it happens	Chloroplasts	Mitochondria
Starting materials	Water and carbon dioxide	Glucose and oxygen



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### Cellular Respiration vs. Photosynthesis

Name: \_\_\_\_\_ Date: \_\_\_\_\_

#### What is Cellular Respiration?

- Cellular respiration is the process that occurs in **all** cells of the body.
- It breaks down **glucose** from our food to create **energy** (ATP).
- The main purpose of cellular respiration is to provide **energy** for the body to use.

#### What is Photosynthesis?

- Photosynthesis is the process that occurs in **plants**.
- Plants use **sunlight energy**, **water**, and **carbon dioxide** to make their own food.
- The purpose of photosynthesis is to make **glucose** which is the plant's energy.

#### Comparing the Two Processes

Feature	Photosynthesis	Cellular Respiration
Where it happens	Chloroplasts	Mitochondria
Starting materials (reactants)	Carbon dioxide ( $CO_2$ ) + Water ( $H_2O$ ) + Sunlight	Glucose ( $C_6H_{12}O_6$ ) + Oxygen ( $O_2$ )
Product materials (products)	Glucose ( $C_6H_{12}O_6$ ) + Oxygen ( $O_2$ )	Carbon dioxide ( $CO_2$ ) + Water ( $H_2O$ )

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**Functional Neurology for Practitioners of Manual Medicine** Randy W. Beck,2011-09-21 Functional Neurology utilizes our understanding of how the nervous system works in the treatment of a variety of clinical conditions Fuctional Neurology for Practitioners of Manual Medicine takes the reader from the embryonic beginnings of the nervous system through the biochemistry of receptor activation and on to the functional systems of the nervous system Both the student and the clinician will find this text a valuable source of information

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sections introduction to the subject area presentation of methods and advanced and future developments The Springer Handbook of Bio Neuroinformatics can be used as both a textbook and as a reference for postgraduate study and advanced research in these areas The target audience includes students scientists and practitioners from the areas of information biological and neurosciences With Forewords by Shun ichi Amari of the Brain Science Institute RIKEN Saitama and Karlheinz Meier of the University of Heidelberg Kirchhoff Institute of Physics and Co Director of the Human Brain Project Juran's Quality Handbook: The Complete Guide to Performance Excellence 6/e Joseph A. Defeo, J. M. Juran, 2010-09-05 The definitive quality management compendium revised for the first time in a decade For more than 50 years Juran's Quality Handbook has been the singular essential reference to quality management and engineering The Sixth Edition the first revision of the Handbook in 10 years forges a new standard in tools for quality Bringing leaders managers master and black belts and engineers the most up to date methods research and tools under the guidance of a team of the world's top experts this authoritative resource shows how to apply universal methods for delivering superior results and organizational excellence in any organization industry country or process Juran's Quality Handbook sixth edition covers Leadership what everyone needs to know about managing for superior quality and results Methods the most effective methods and tools for attaining superior results such as Lean Six Sigma Root Cause Analysis Continuous Innovation and more Industry applications effectively applying quality management The roles of key functions such as quality professionals research and development supply chain and governance and what they must carry out to attain superior results in an organization Performance excellence pragmatic roadmaps templates and tools to aid in developing an effective and sustainable performance excellence system

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*Handbook of Design, Manufacturing and Automation* Richard C. Dorf, Andrew Kusiak, 1994 Comprehensive detailed and organized for speedy reference everything you need to know about modern manufacturing technology From concurrent engineering to fixture design for machining systems from robotics and artificial intelligence to facility layout planning and automated CAD based inspection this handbook provides all the information you need to design plan and implement a modern efficient manufacturing system tailored to your company's special needs and requirements Handbook of Design Manufacturing and Automation does more than simply present the characteristics and specifications of each technology much more Each technology is discussed both in terms of its own capabilities and in terms of its compatibility with other technologies and the trade offs involved in choosing one option over another are explored at length An entire section is devoted to the business aspects of converting to the new technologies including acquisition of automation managing advanced manufacturing technology and issues of cost and financing The focus is on incorporating these technologies into a

cohesive whole an efficient cost effective manufacturing system Other important topics include Design for automated manufacturing Nontraditional manufacturing processes Machine tool programming techniques and trends Precision engineering and micromanufacturing Computer integrated product planning and control Image processing for manufacturing And much more Teaching Science Online Dietmar Kennepohl,2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences An overview of the important and appropriate learning technologies ICTs for each major science Best practices for establishing and maintaining a successful course online Insights and tips for handling practical components like laboratories and field work Coverage of breaking topics including MOOCs learning analytics open educational resources and m learning Strategies for engaging your students online A Laboratory Guide in Histology Leslie Brainerd Arey,1917 Encyclopedia of Cell Technology Raymond Spier,2000 Brings together up to date information on all key aspects of plant and animal cell technology in a single resource Covers scientific historical and ethical aspects of biotechnology Synthesizes a wealth of information in a valuable one stop resource Invaluable to researchers working animal or plant cell technology MedMaps for Pathophysiology Yasmeen Agosti,2007-04-01 MedMaps for Pathophysiology contains 102 concept maps of disease processes and mechanisms The book is organized by organ system and includes classic diseases such as hypertension diabetes and congestive heart failure as well as complex diseases such as lupus and HIV Each concept map is arranged to visually capture and clarify the relationships between various aspects of each disease such as biochemical and genetic causes and responses PUBLISHER S WEBSITE Teaching Science for Understanding James Joseph Gallagher,2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities

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