

GR 10 Paper 1 Life Sciences scope November 2023 (10 November 2023)

Biological terms: Interphase, Anaphase, Metaphase, Telophase, Collenchyma, phloem, Sclerenchyma, Parenchyma, cuticula, Transpirations, stomata, neuron, organic compound, connective tissue, chromatin, chromosome, foramen magnum, axial skeleton, cranium	
Chemistry of life	Cells
Difference between organic and inorganic compounds	Difference between animal cell and plant cell
Examples of organic and inorganic compounds	All the cell organelles and functions/rolls
Monomers of all organic compound	Describe the build of the nucleus, mitochondria, and chloroplast
Elements of all the organic compounds	Investigation: Osmose and diffusion (Look at the apparatus that we use and how to set up this Investigation)
Vitamins A, B, C, D, and E, and there deficiency diseases they can cause	Explain osmose and diffusion
Enzymes	
- Lock and key model	
- Function of enzymes	
Influence of temperature and pH on enzyme action	
Mitosis	Plant tissue
All the phases can identify and give reasons for your answers	Build and function of: Collenchyma, Sclerenchyma, Parenchyma, Phloem, Xylem and stomata
Product of Mitosis	Definition of tissue
Difference between telophase in plant cells and animal cells	
Biological importance of Mitosis	
Cancer: - Uncontrolled cell division and growth: Causes and treatment of cancer	
	Function and build of: Stomata, Xylem, and root hair
	Adaptions of Xylem for movement of water upwards
Animal tissue	Plant organs
Name and identify all the animal tissues and where in the human body are they located.	The labels and functions of the dorsiventral leaf.
Functions of all the animal tissues	Adaptions of the different parts of the leaf
Name all the connective tissues	Definition of an organ
Support and transport in plants	Support in animals
Labels of dicotyledonous stem and root	All the labels of the skeleton
Difference between a dicotyledons root and stem	Where do we find long bones in the skeleton
	Function of the skeleton
Investigation: The rate of transpirations (Potometer)	
The effect of environmental factors on transpiration (Wind, Temperature and Light.)	

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Table of Contents Grade Life Science Paper Scope

1. Understanding the eBook Grade Life Science Paper Scope
 - The Rise of Digital Reading Grade Life Science Paper Scope
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Life Science Paper Scope
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade Life Science Paper Scope
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Life Science Paper Scope
 - Personalized Recommendations

- Grade Life Science Paper Scope User Reviews and Ratings
- Grade Life Science Paper Scope and Bestseller Lists
- 5. Accessing Grade Life Science Paper Scope Free and Paid eBooks
 - Grade Life Science Paper Scope Public Domain eBooks
 - Grade Life Science Paper Scope eBook Subscription Services
 - Grade Life Science Paper Scope Budget-Friendly Options
- 6. Navigating Grade Life Science Paper Scope eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Life Science Paper Scope Compatibility with Devices
 - Grade Life Science Paper Scope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Life Science Paper Scope
 - Highlighting and Note-Taking Grade Life Science Paper Scope
 - Interactive Elements Grade Life Science Paper Scope
- 8. Staying Engaged with Grade Life Science Paper Scope
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Life Science Paper Scope
- 9. Balancing eBooks and Physical Books Grade Life Science Paper Scope
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Life Science Paper Scope
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade Life Science Paper Scope
 - Setting Reading Goals Grade Life Science Paper Scope
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade Life Science Paper Scope
 - Fact-Checking eBook Content of Grade Life Science Paper Scope

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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