

# GRADE 10 LIFE SCIENCES LECTURE NOTES

## TRANSPORT IN PLANTS AND ANIMALS.

### Introduction

- Transport is the movement of substances within an organism.
- All living cells require oxygen and food for various metabolic processes.
- These substances must be transported to the cells.
- Metabolic processes in the cells produce excretory products which should be eliminated before they accumulate.
- The excretory products should be transported to sites of excretion.
- Organisms like amoeba are unicellular.
- They have a large surface area to volume ratio.
- The body is in contact with the environment.
- Diffusion is adequate to transport substances across the cell membrane and within the organism.
- Large multi-cellular organisms have complex structure where cells are far from each other hence diffusion alone cannot meet the demand for supply and removal of substances.
- Therefore an elaborate transport system is necessary.

### Transport in plants

- Simple plants such as mosses and liverworts lack specialized transport system.
- Higher plants have specialized transport systems known as the vascular bundle.
- Xylem transports water and mineral salts.
- Phloem transports dissolved food substances like sugars.

### Internal structure of roots and root hairs

- The main functions of roots are ;
  - Anchorage
  - absorption.
  - storage
  - gaseous exchange.
- The outermost layer in a root is the piliferous layer.
- This is a special epidermis of young roots whose cells give rise to root hairs.
- Root hairs are microscopic outgrowths of epidermal cells.
- They are found just behind the root tip,

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## **Table of Contents Grade 10 Life Sciences Notes**

1. Understanding the eBook Grade 10 Life Sciences Notes
  - The Rise of Digital Reading Grade 10 Life Sciences Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Life Sciences Notes
  - 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 10 Life Sciences Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Life Sciences Notes
  - Personalized Recommendations

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

- 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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