

SUBJECT and GRADE	Life Sciences Grade 10
TERM 2	Term 2 (Week 4)
TOPIC	Support and transport in plants (Secondary growth, Transpiration, wilting and guttation)
AIMS OF LESSON	At the end of this lesson you should be able to:  Define basic terminology such as etc. secondary growth, transpiration, wilting, guttation etc.  Label drawing of cross sections through the plant root and stem  Know the distribution of different tissues in the root and stem  Know the structure of cells in different tissues  Know and understand the process of secondary growth including annual rings  Know the process of transpiration and the factors affecting the rate of transpiration  Interpret experiments/investigations on the effects of temperature, light intensity, wind and humidity on the rate of transpiration  Differentiate between wilting and guttation
RESOURCES	Paper based resources
	Refer to your textbook section on:  The structure of the root and stem Secondary growth in a stem Transpiration, wilting and guttation
INTRODUCTION	
	<ul> <li>You have studied cell structure and the functions of the different organelles in Grade 9 and in term 1 in Grade 10</li> <li>You have studied the concept of a tissue as a group of similar cells that are adapted for a particular function in Grade 10</li> <li>Revise the structure of the plant leaf as an organ in lesson 1</li> </ul>
CONCEPTS AND SKILLS	Below are definitions of some of the terms that you will study under this section. Use your textbook and underline all the new terms/words that you encounter while studying through the section on support and transport in plants. Use the glossary in your textbook to define these new terms/words (Note: At least 2 marks are awarded if you can define a term correctly in a test or examination)  Root hair — unicellular epidermal outgrowths that increases the absorption surface of the root Cambium—layer of meristematic tissue between the xylem and philoem of the stem Fascicular cambium—cambium in the vascular bundles of dicotyledonous stems.

# <u>Life Sciences Caps Lesson Plan Term 2</u>

**Michael Seilmaier** 

**Life Sciences Caps Lesson Plan Term 2:** 

This book delves into Life Sciences Caps Lesson Plan Term 2. Life Sciences Caps Lesson Plan Term 2 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Life Sciences Caps Lesson Plan Term 2, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Life Sciences Caps Lesson Plan Term 2
  - Chapter 2: Essential Elements of Life Sciences Caps Lesson Plan Term 2
  - Chapter 3: Life Sciences Caps Lesson Plan Term 2 in Everyday Life
  - Chapter 4: Life Sciences Caps Lesson Plan Term 2 in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Life Sciences Caps Lesson Plan Term 2. The first chapter will explore what Life Sciences Caps Lesson Plan Term 2 is, why Life Sciences Caps Lesson Plan Term 2 is vital, and how to effectively learn about Life Sciences Caps Lesson Plan Term 2.
- 3. In chapter 2, this book will delve into the foundational concepts of Life Sciences Caps Lesson Plan Term 2. The second chapter will elucidate the essential principles that need to be understood to grasp Life Sciences Caps Lesson Plan Term 2 in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Life Sciences Caps Lesson Plan Term 2 in daily life. The third chapter will showcase real-world examples of how Life Sciences Caps Lesson Plan Term 2 can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Life Sciences Caps Lesson Plan Term 2 in specific contexts. This chapter will explore how Life Sciences Caps Lesson Plan Term 2 is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Life Sciences Caps Lesson Plan Term 2. The final chapter will summarize the key points that have been discussed throughout the book.
  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Life Sciences Caps Lesson Plan Term 2.

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