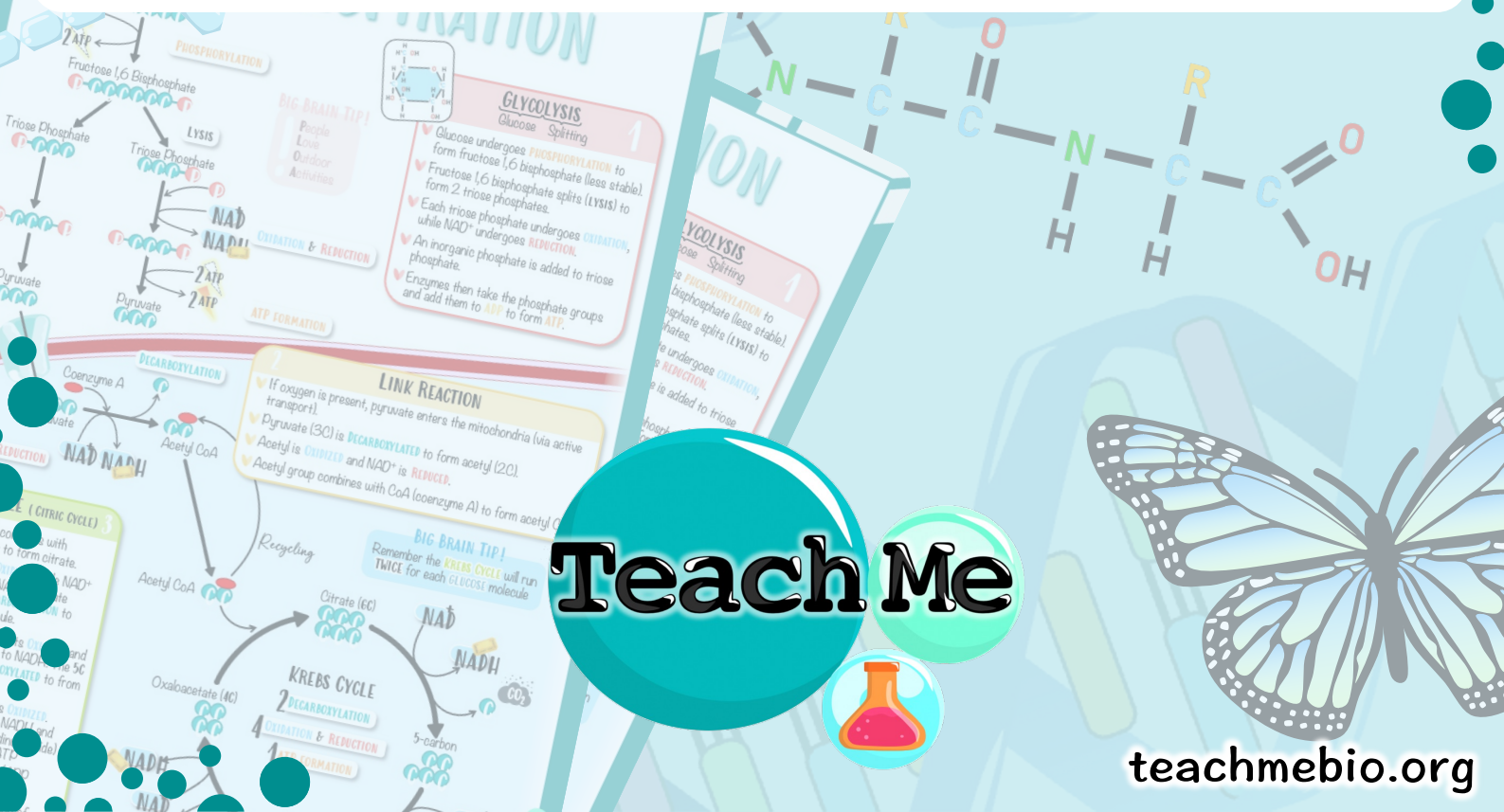


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STUDY NOTES

CHAPTER 7 – PLANT TRANSPORT PLANT ANATOMY

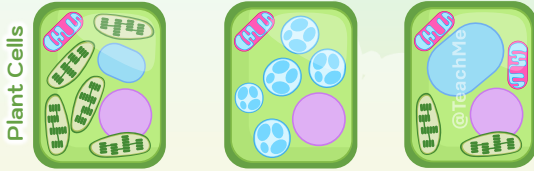


PLANT ANATOMY

Plants are made up of three main organs: **ROOTS**, **STEMS** and **LEAVES**. Each with a different structure and performs a different job.

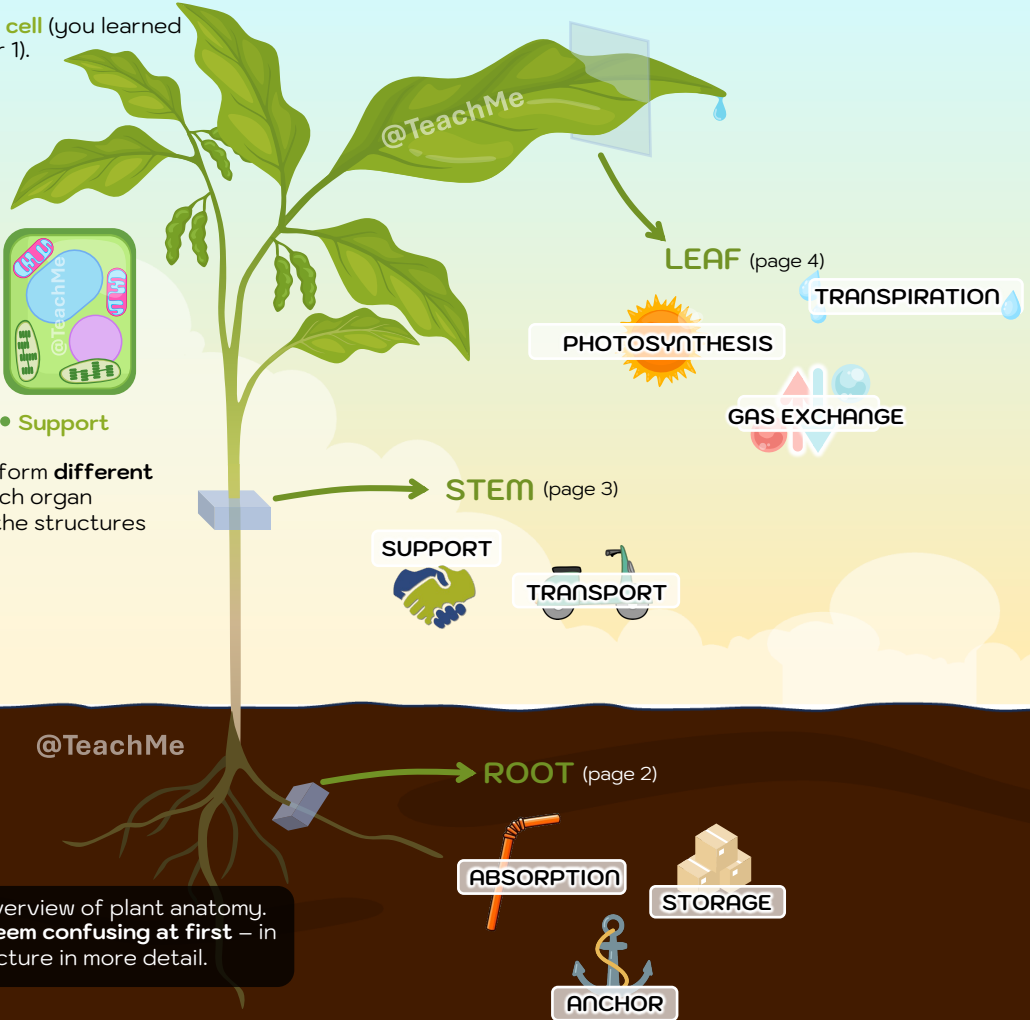
The basic unit of all plants is the **plant cell** (you learned about its detailed structure in chapter 1).

Although all plant cells share the same fundamental structures, they become **specialized** depending on their location in the plant:



- Photosynthesis
- Storage
- Support

These adaptations allow them to perform **different functions**, but to understand how each organ functions, we must first understand the structures that make up the plant one by one.



NOTE!

This section provides a broad overview of plant anatomy. Don't worry if some concepts seem confusing at first – in the next notes look at each structure in more detail.

Plants vs. Animals

Although plants and animals obtain energy in different ways, both carry out cellular respiration to release ATP for cellular activities.

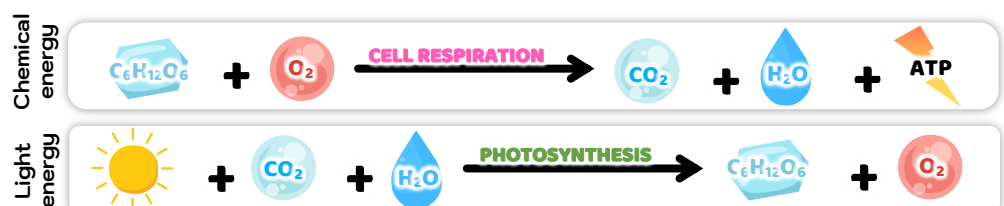
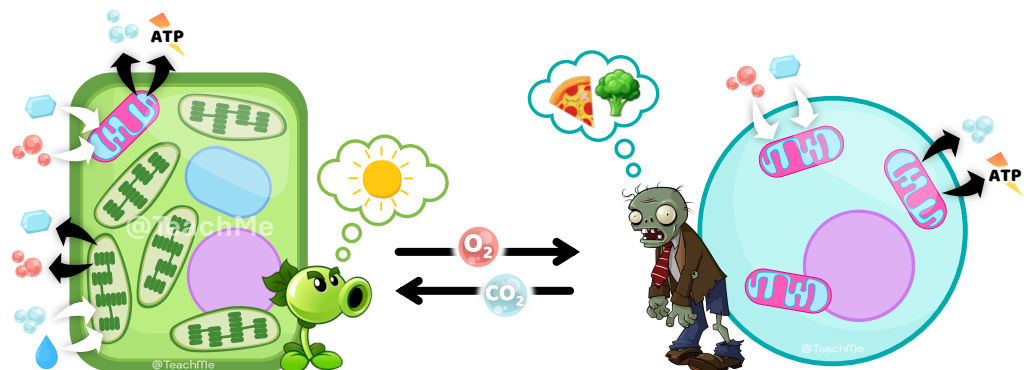


BIG BRAIN TIP!

Plants also carry out **cellular respiration**!

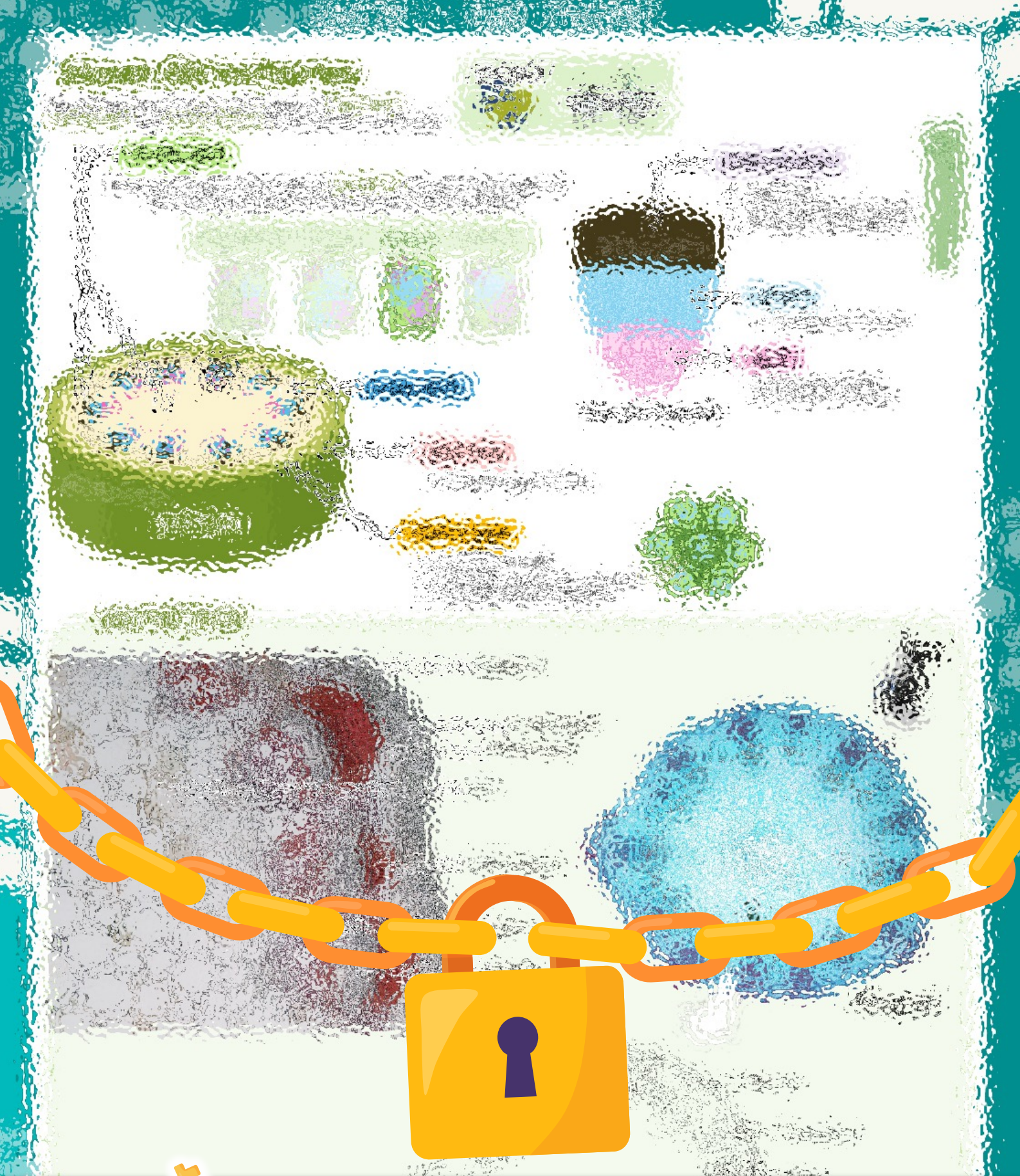
Unlike animals, plants can also perform **PHOTOSYNTHESIS**, producing glucose from **sunlight**, **carbon dioxide** and **water**.

As we explore the different plant organs, you'll discover how each structure is specially adapted to support photosynthesis and help the plant survive.





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