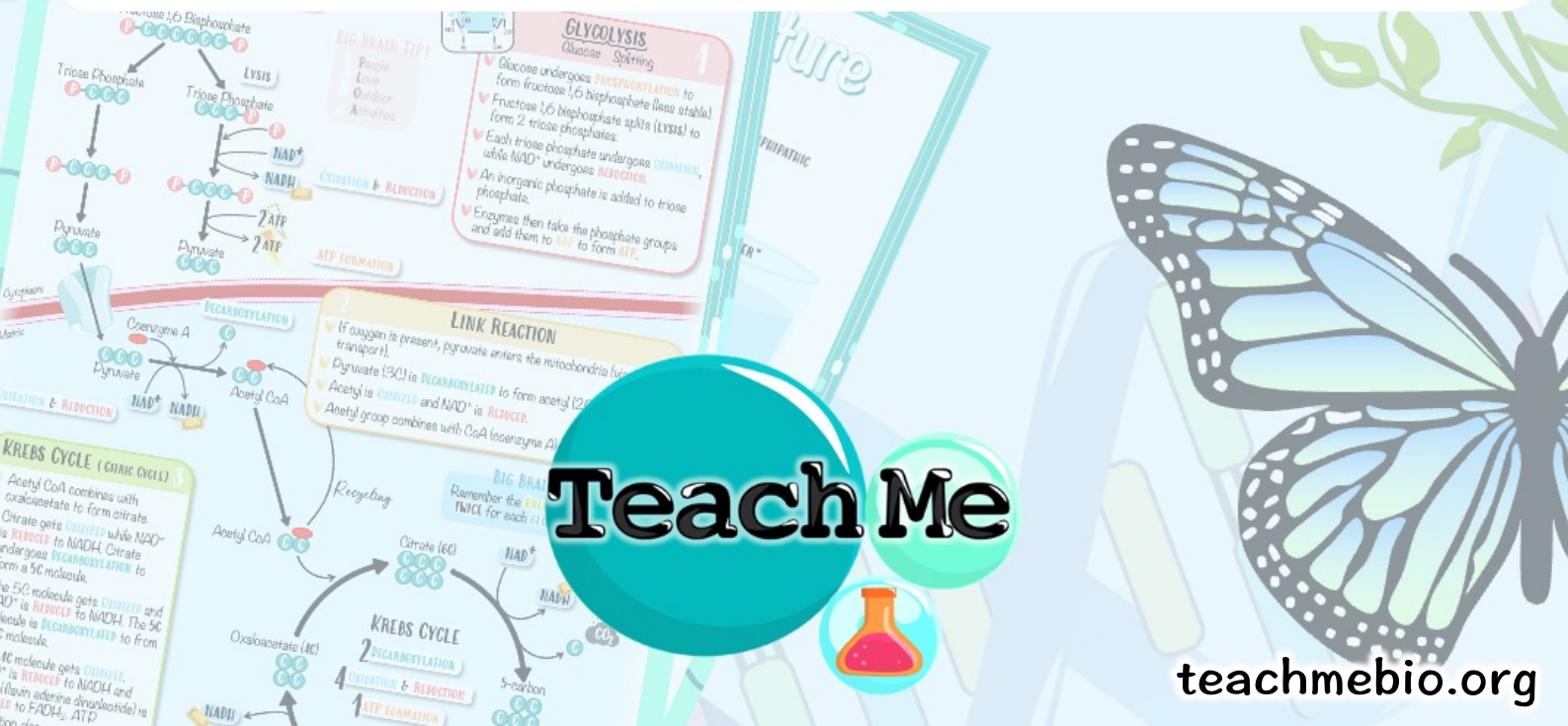


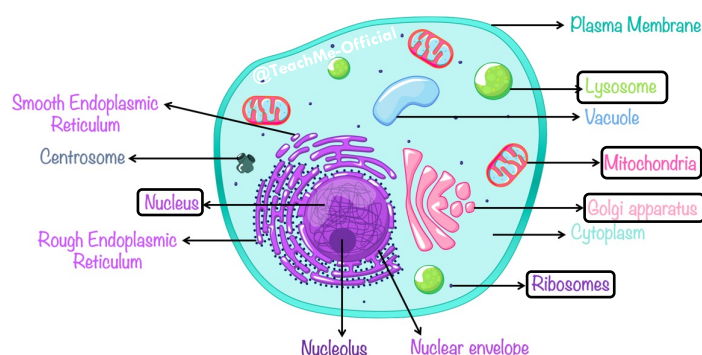
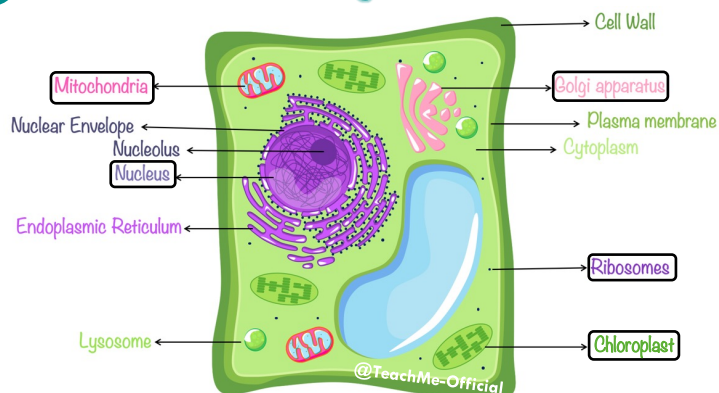
TeachMe

STUDY NOTES

B2.2 COMPARTMENTALIZATION (HL)



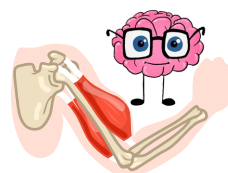
Organelles & Compartmentalization (HL)



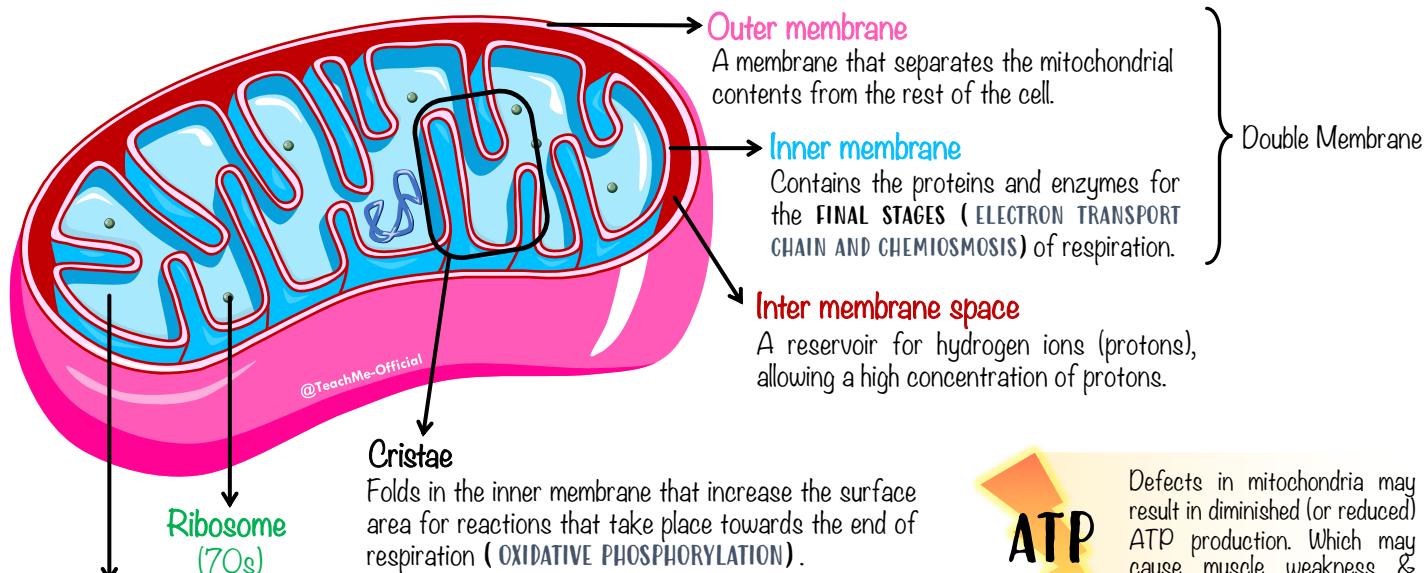
Make sure you remember all the cell structures found in **EUKARYOTIC CELLS**, both **PLANT** and **ANIMAL**. Refer to **A2.2**.
Now let's look at some of these organelles in more detail!

THE MITOCHONDRIA

Used in cellular respiration (to make **ATP**) – The **POWERHOUSE** of the cell!



Cells that need a lot of **ATP** have more mitochondria!
For example muscle & brain cells

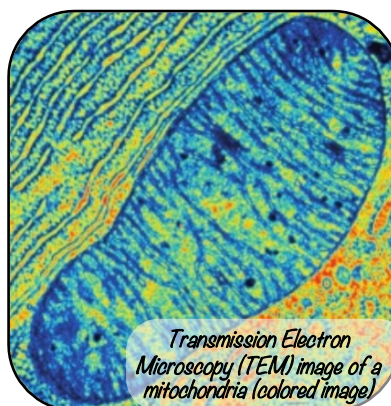


ATP

Defects in mitochondria may result in diminished (or reduced) ATP production. Which may cause muscle weakness & poor mental development.

NOTE!

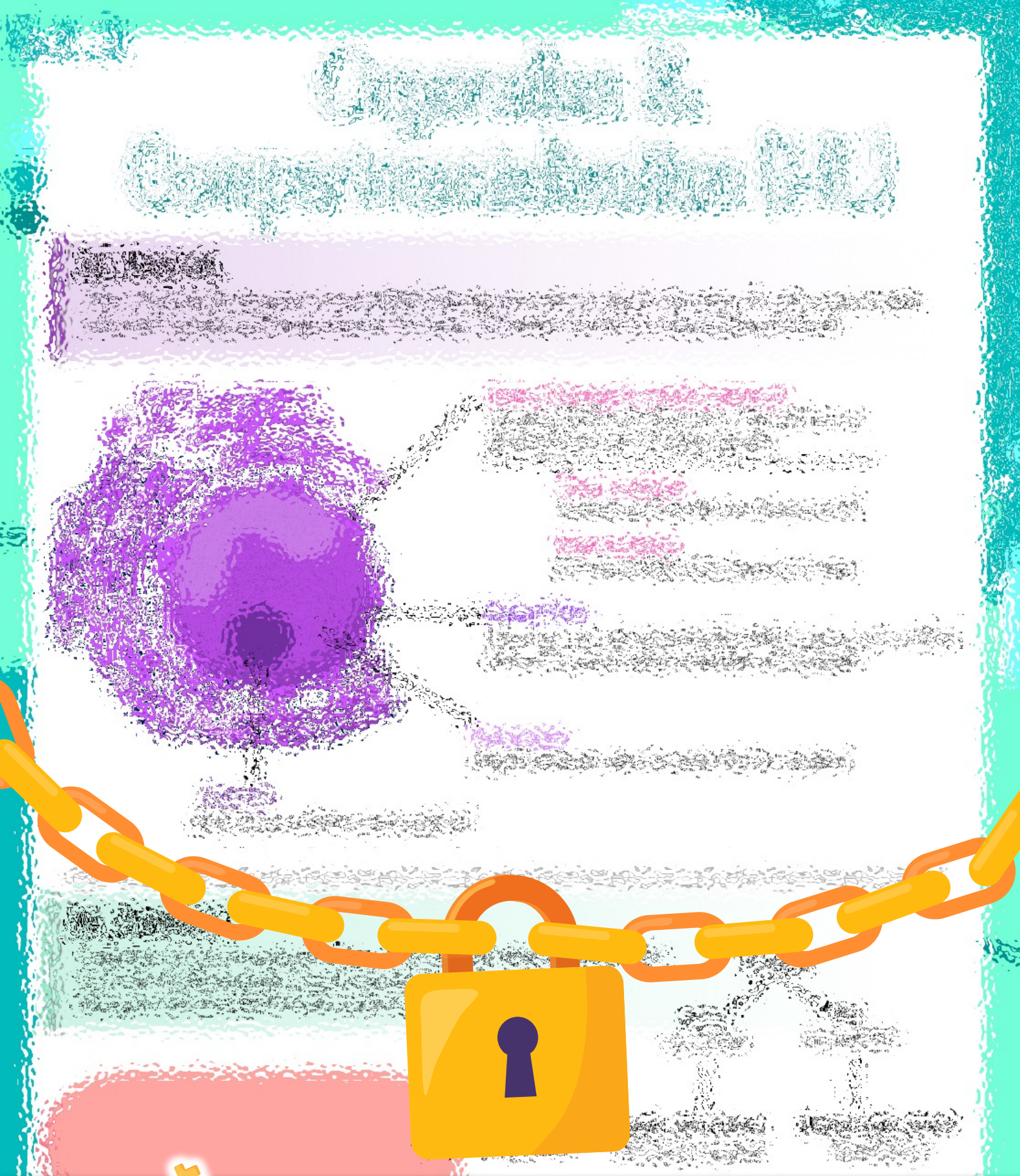
You will learn in section **C1.2** more details about the process of cell respiration, for now focus on the big picture.



Remember in section **A2.2** where the mitochondria and chloroplast come from:
ENDOSYMBIOTIC THEORY



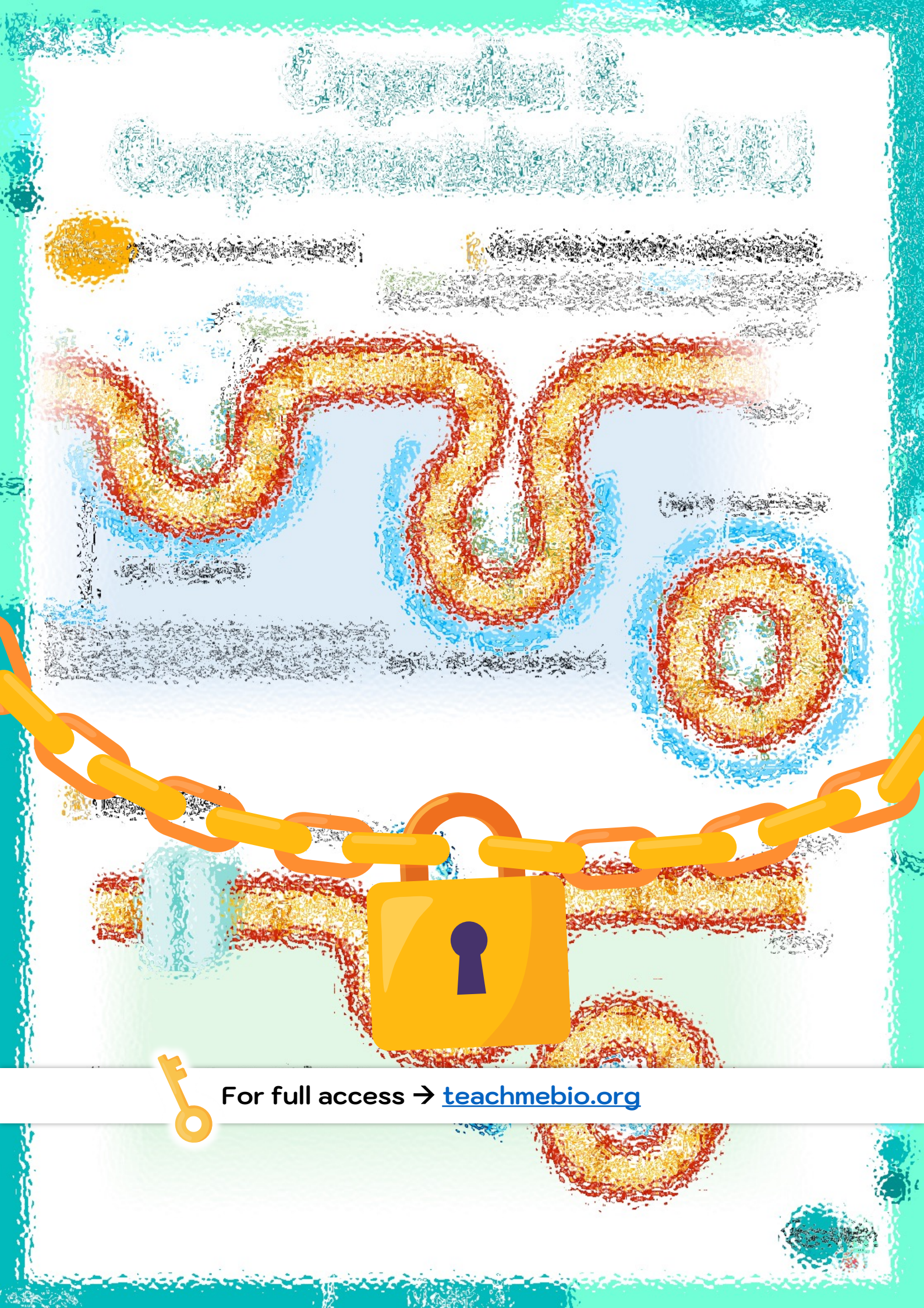
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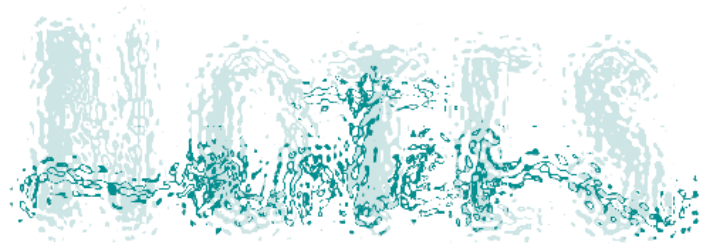
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