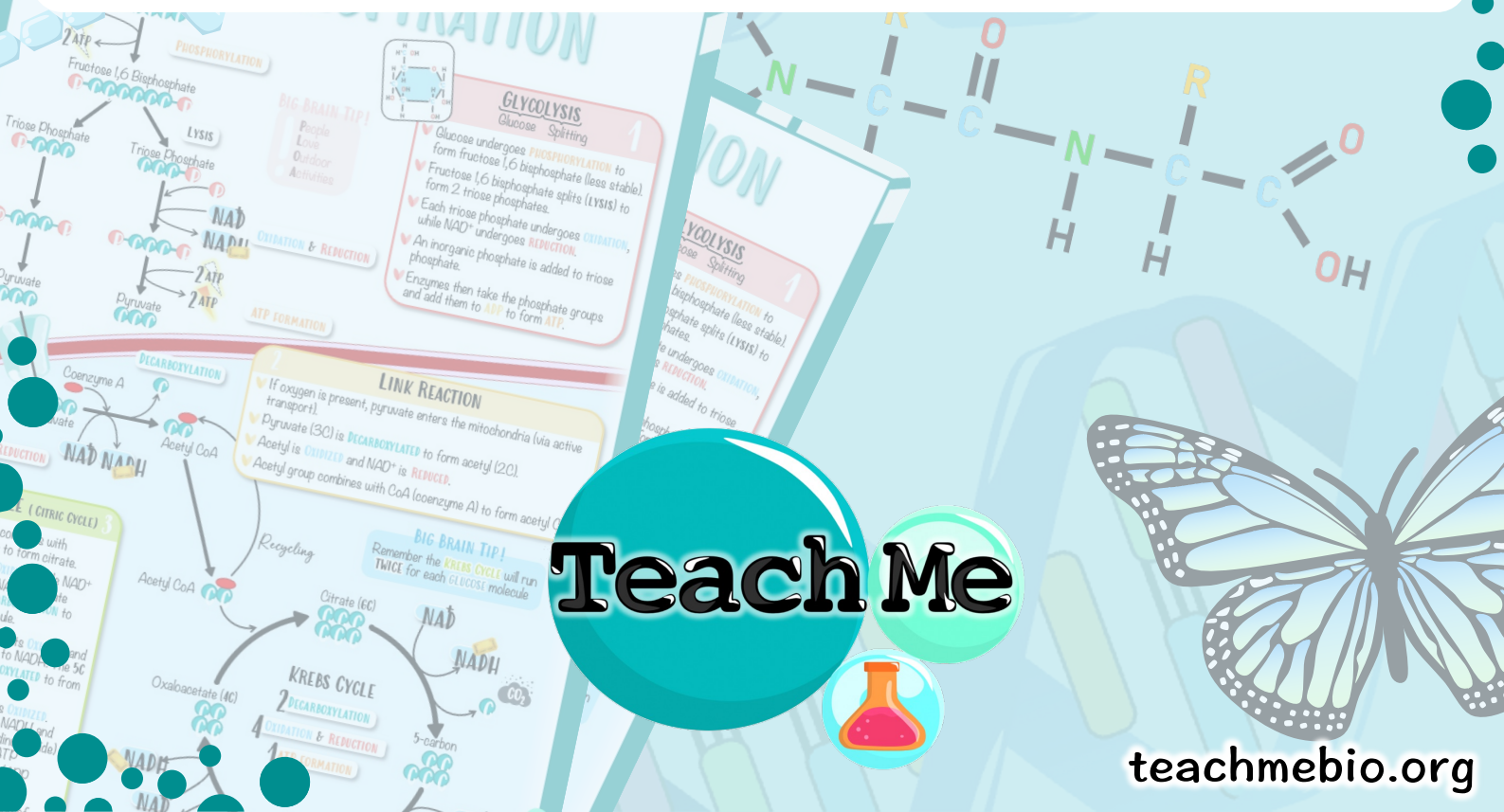


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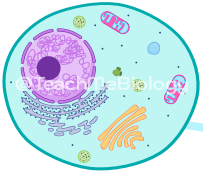
STUDY NOTES

CHAPTER 2 – BIOLOGICAL MOLECULES

Water



WATER



Our bodies are built from **CARBOHYDRATES**, **LIPIDS**, **PROTEINS** and **NUCLEIC ACIDS**, all of which we'll learn more about in the next chapters — but the molecule we contain more of than any other is **WATER**.

CARBOHYDRATES
(Chapter 2)

LIPIDS
(Chapter 2)

PROTEIN
(Chapter 2)

NUCLEIC ACIDS
(Chapter 6)

WATER

Macromolecules

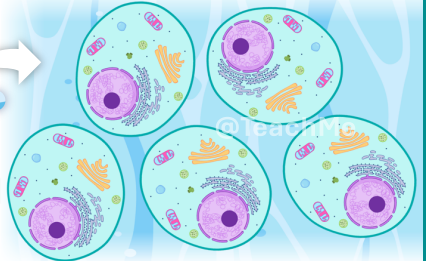
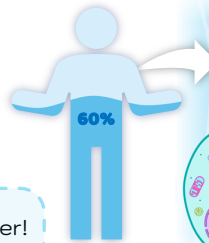
Habitat

Blood & bodily fluids

Cells & Organelles

Between cells

Water is found **everywhere**! It fills our cells and organelles, surrounds them as extracellular fluid, and makes up most of our blood and bodily fluids — all while serving as a vital habitat for countless organisms.

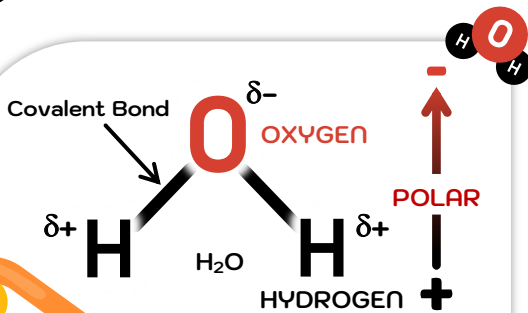


In fact, about **60%** of the human body is made of water!

What exactly is water?



Water is a molecule made up of one **OXYGEN (O)** atom and two **HYDROGEN (H)** atoms, linked by **COVALENT BONDS**. This is why water has the chemical formula **H₂O** (the subscript indicating the number of atoms).



Water is **POLAR**:

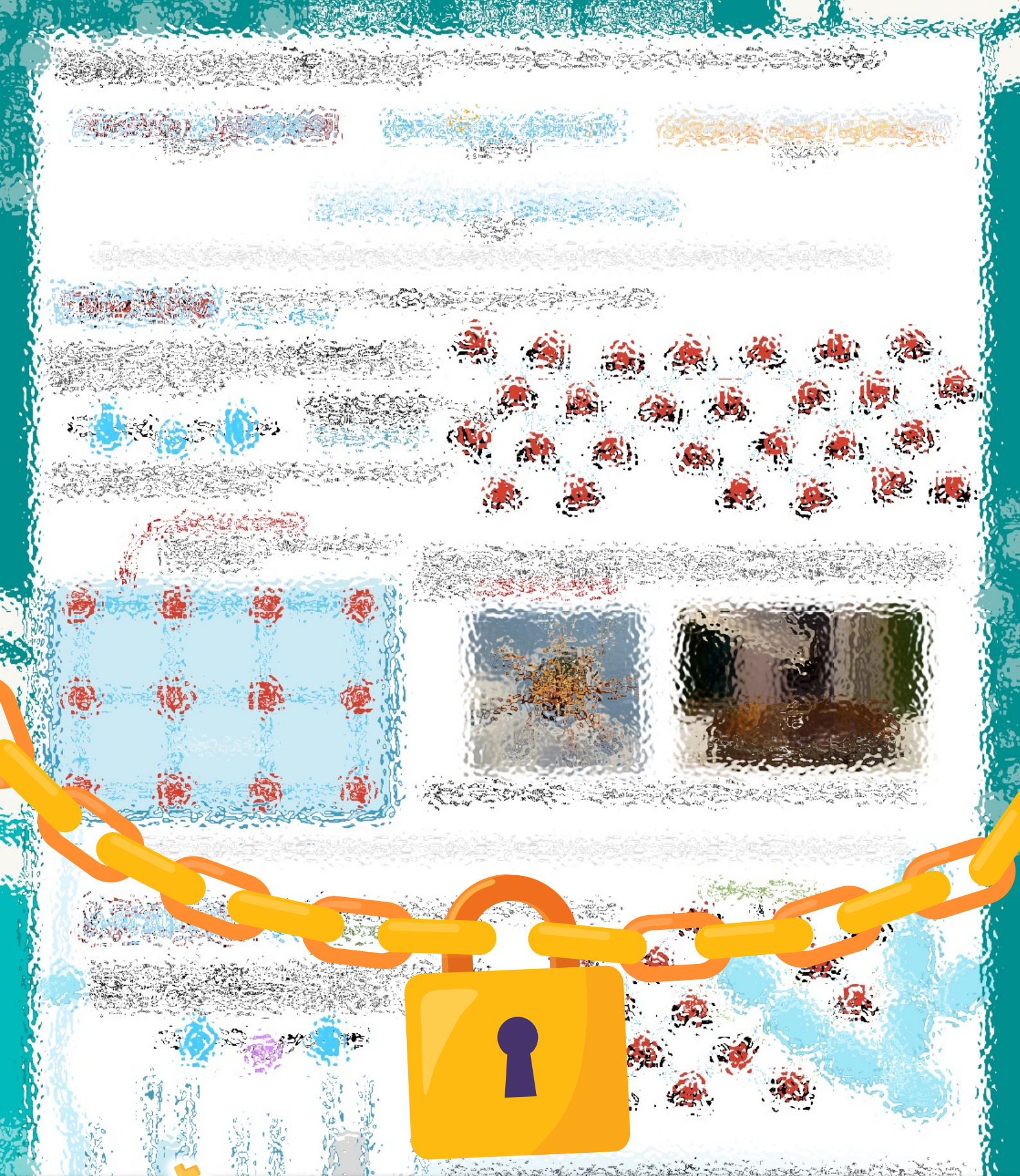
The oxygen atom is more negative, while the hydrogen atoms are more positive.

KEY

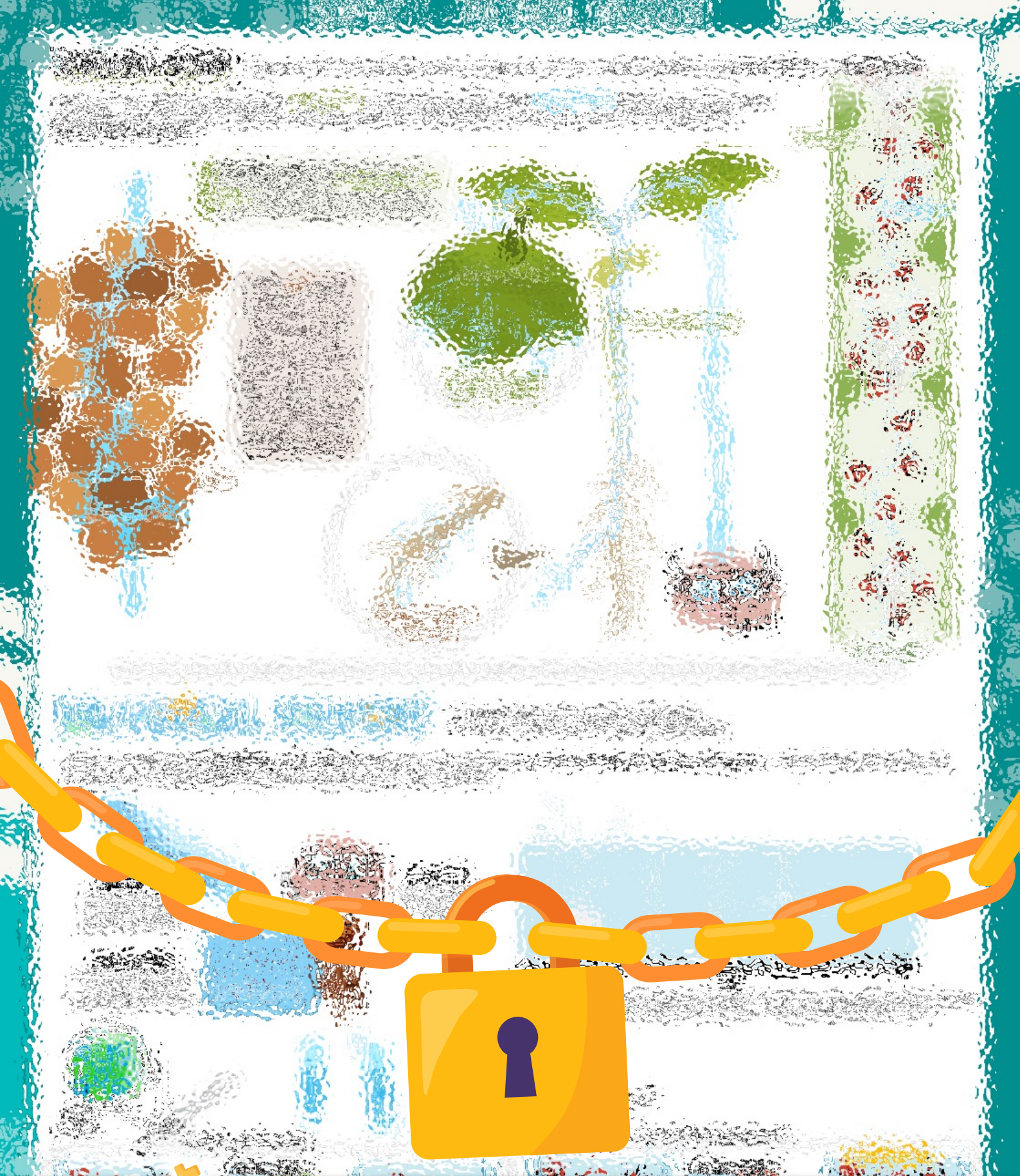
δ = "Delta"

δ^- = partial negative

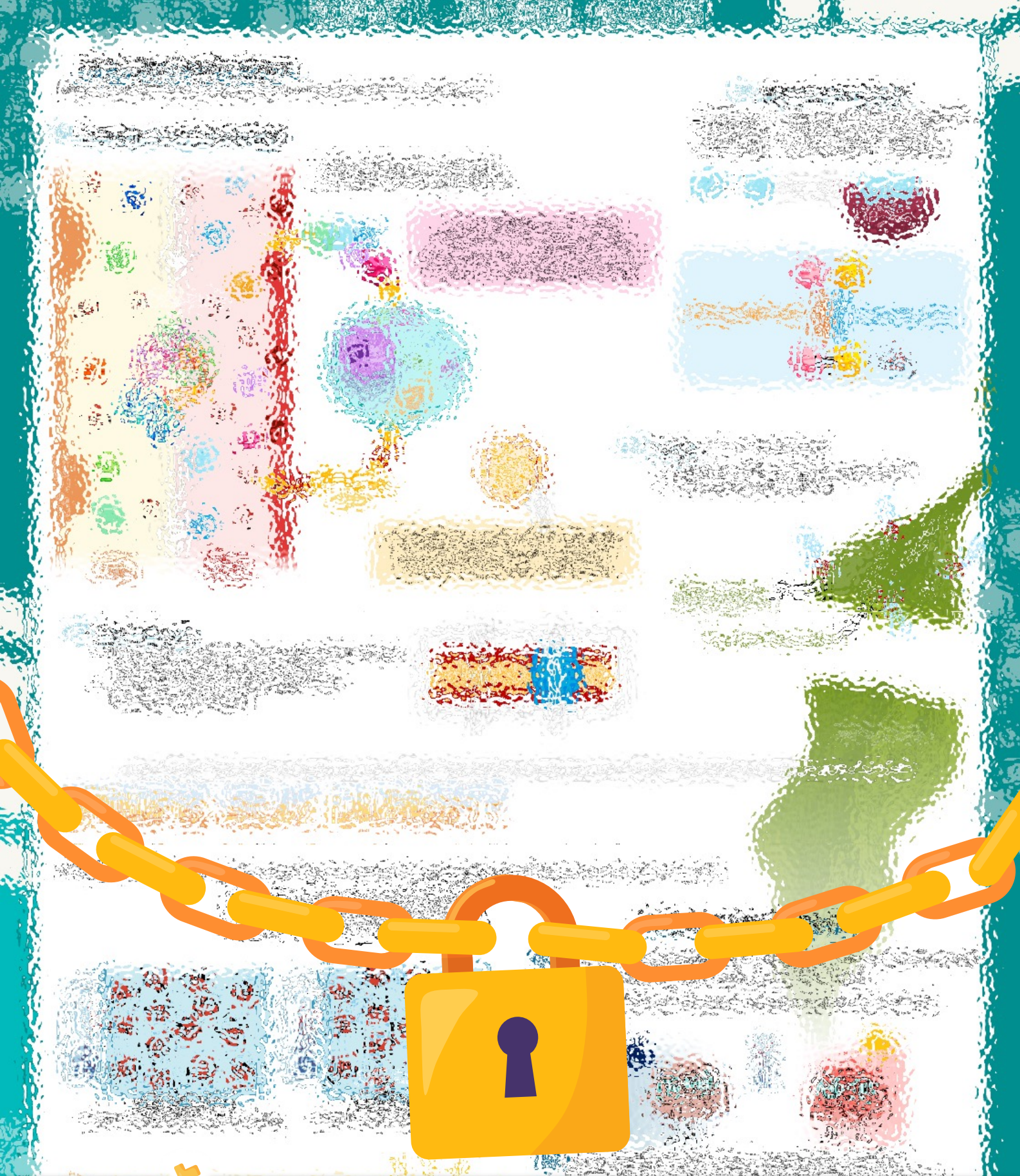
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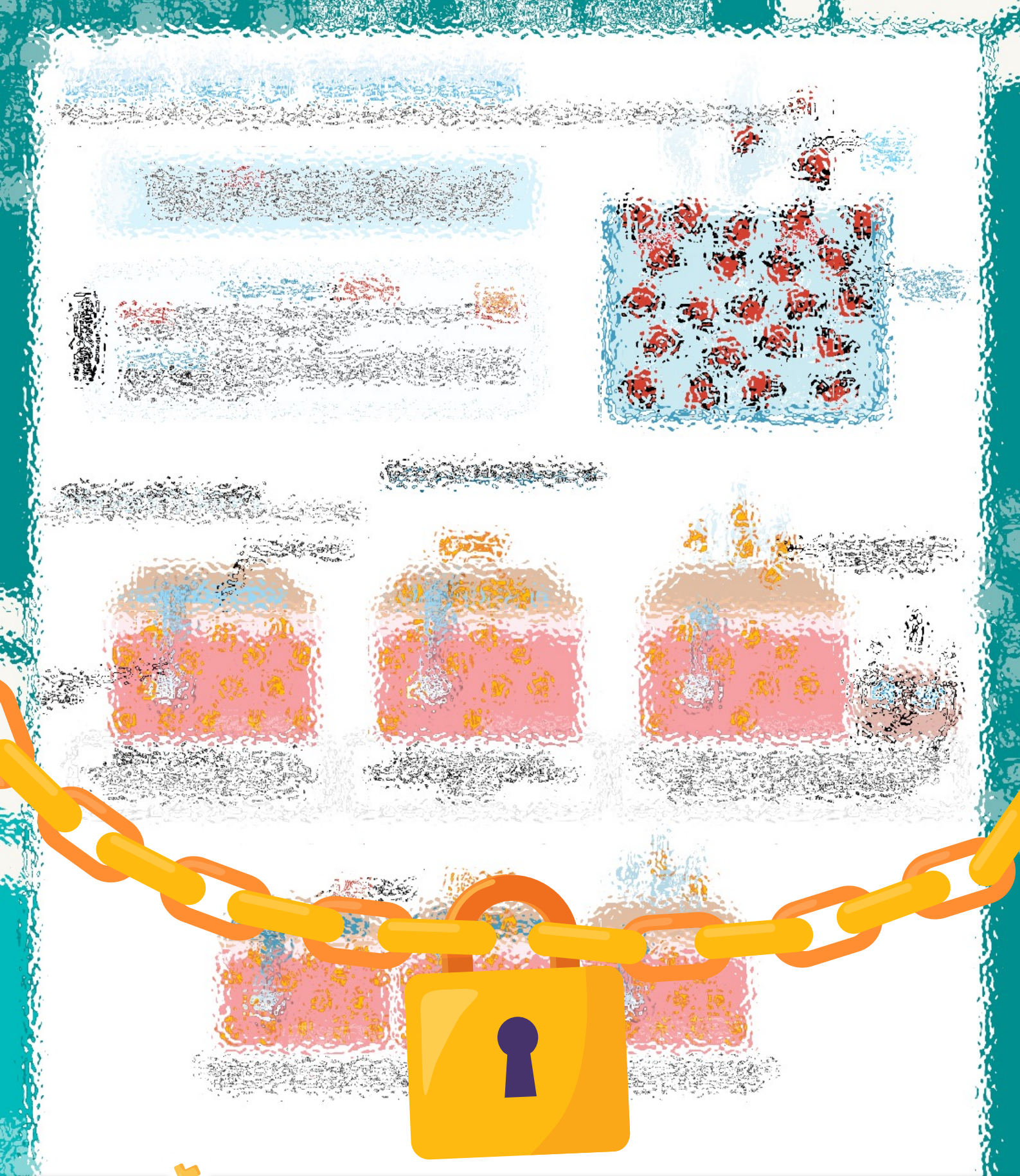
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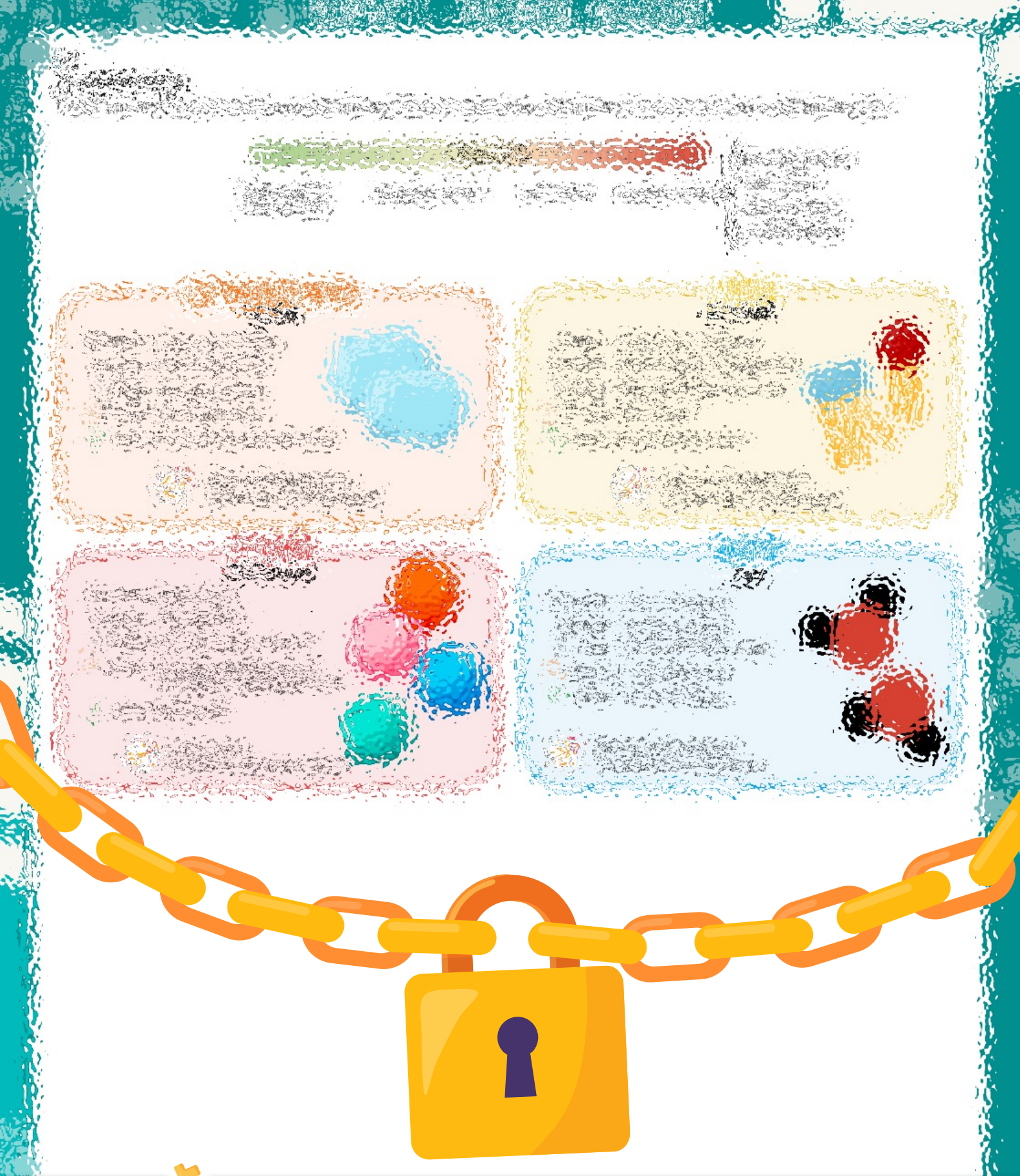
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UNIT 1

1.1 Introduction to Biology
1.2 The Scientific Method
1.3 Cells and Tissues
1.4 The Human Body
1.5 The Nervous System
1.6 The Circulatory System
1.7 The Respiratory System
1.8 The Digestive System
1.9 The Excretory System
1.10 The Reproductive System
1.11 The Endocrine System
1.12 The Immune System
1.13 The Muscular System
1.14 The Skeletal System
1.15 The Integumentary System
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1.100 The Sensory System



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