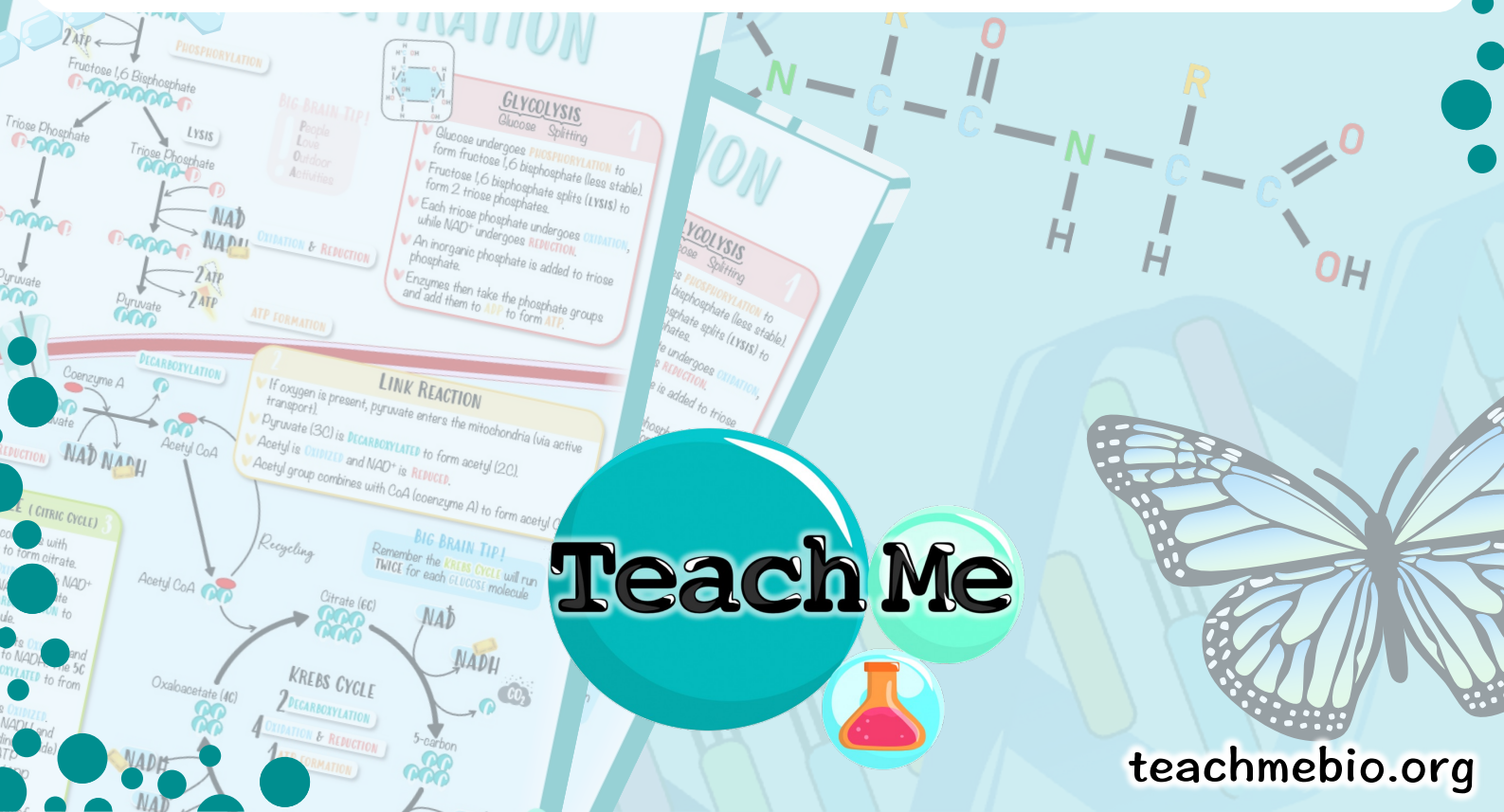


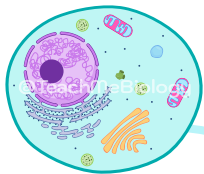
TeachMe

STUDY NOTES

CHAPTER 2 – BIOLOGICAL MOLECULES Water



WATER

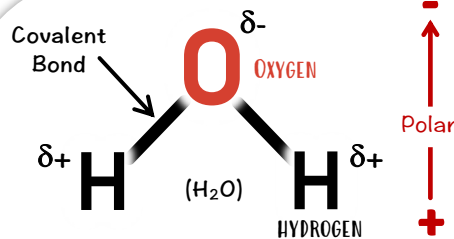
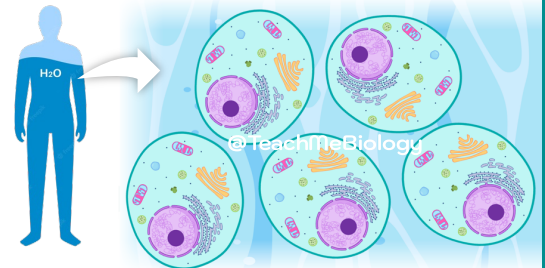


Macromolecules

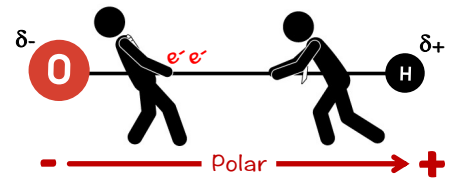
Water is found everywhere! It fills our cells and organelles, surrounds them as extracellular fluid, and makes up most of our blood and bodily fluids — all while serving as a vital habitat for countless organisms.

In fact, about **70%** of the human body is made of water!

Water is **POLAR** because oxygen pulls the electrons harder than hydrogen — like a tug-of-war where **oxygen** is winning, giving it a **partial negative charge**.



One side of the water molecule is more negative, while the other side is more positive.



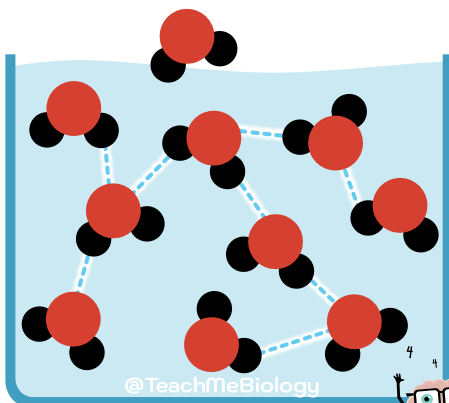
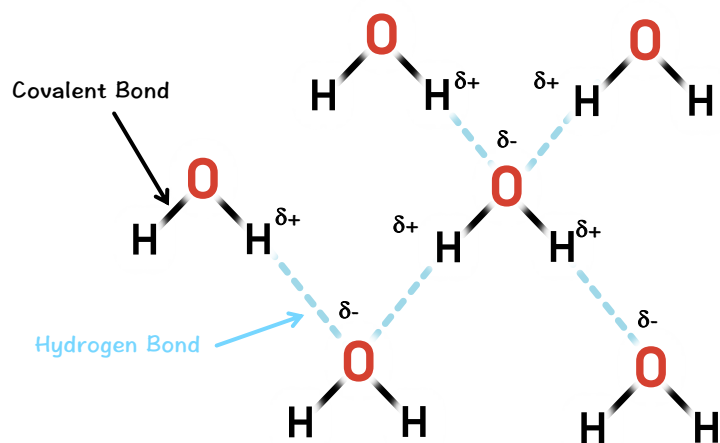
BIG BRAIN TIP!

Hydrogen bonds are **hyding**
Weaker than covalent bonds

The positive end of one molecule is attracted to the negative end of another (opposites attract). These attractions are called **HYDROGEN BONDS**.



This causes water molecules to stick together — giving water its special properties.



1 Water molecule can form a total of 4 hydrogen bonds.

In liquid state, hydrogen bonds are continually breaking, reforming and moving around.

Although each hydrogen bond is weak, the large number of them between water molecules gives water several unique properties that are essential to life. These include:

COHESION & ADHESION
(page 2)

UNIVERSAL SOLVENT
(page 2)

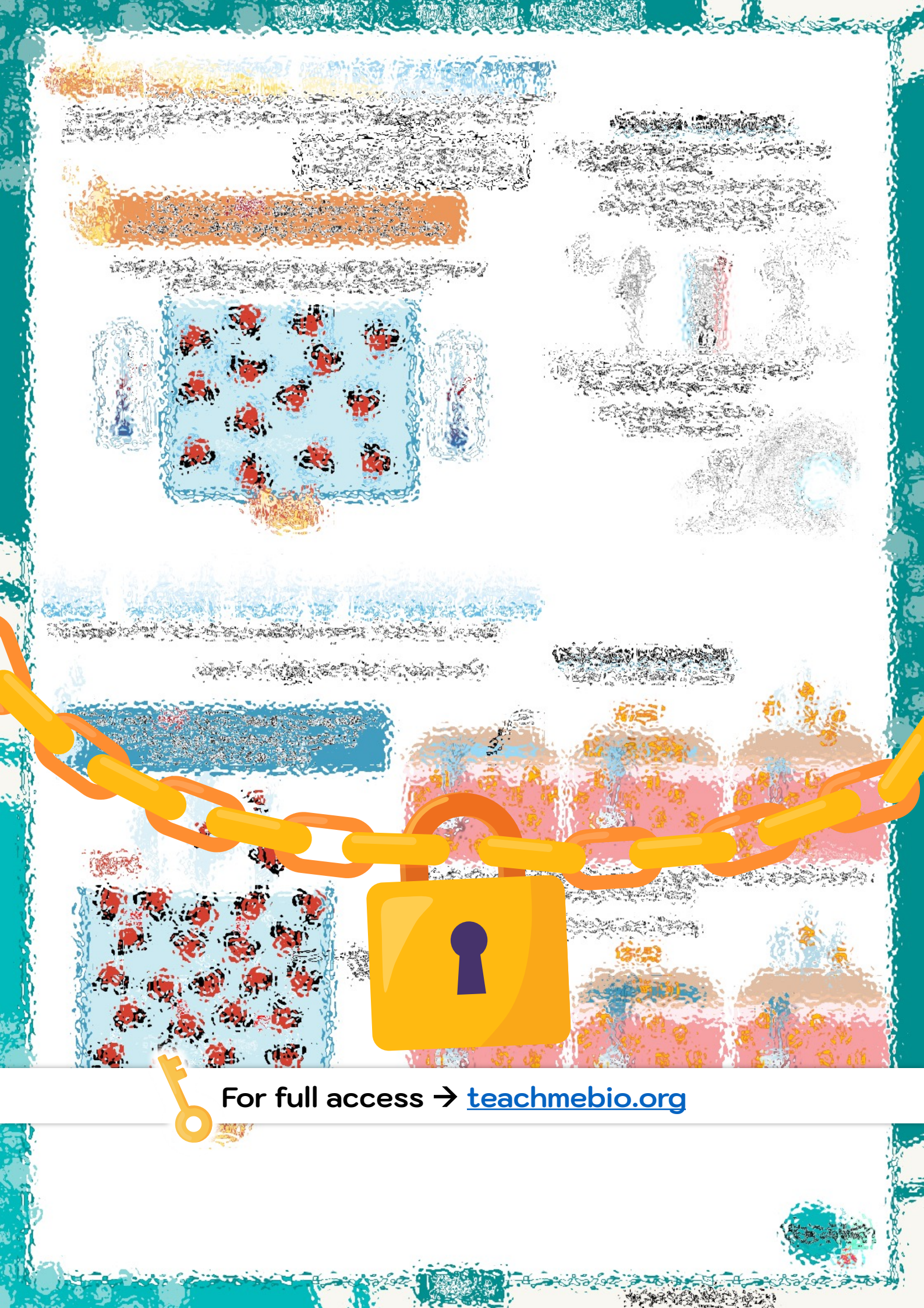
HIGH LATENT HEAT OF VAPORIZATION
(page 3)

HIGH SPECIFIC HEAT CAPACITY
(page 3)

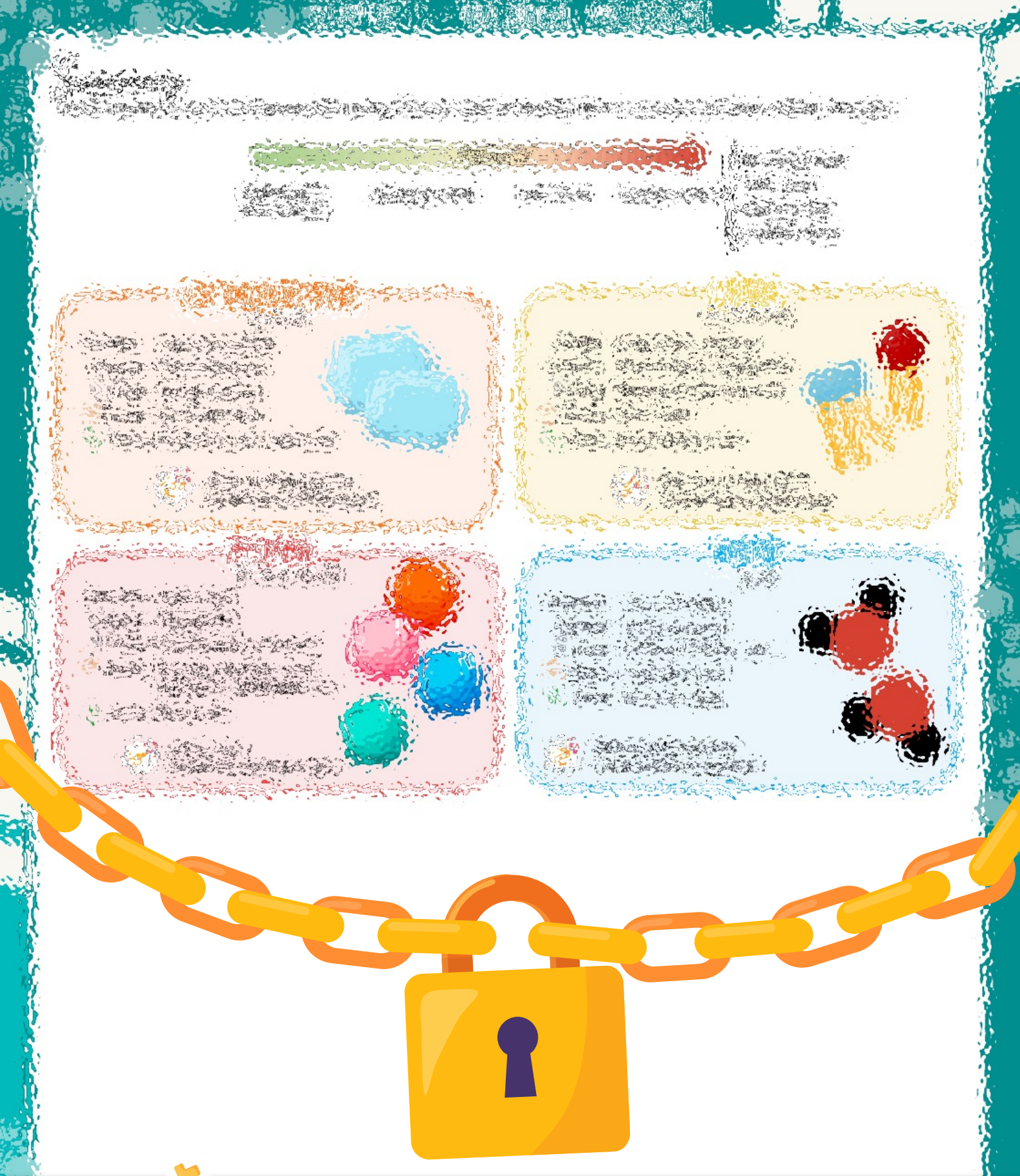




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The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting. The second part outlines the various methods used to collect and analyze data, including surveys, interviews, and focus groups. The third part presents the results of the study, showing a clear trend of increasing participation over time. The final part concludes with recommendations for future research and implementation.



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