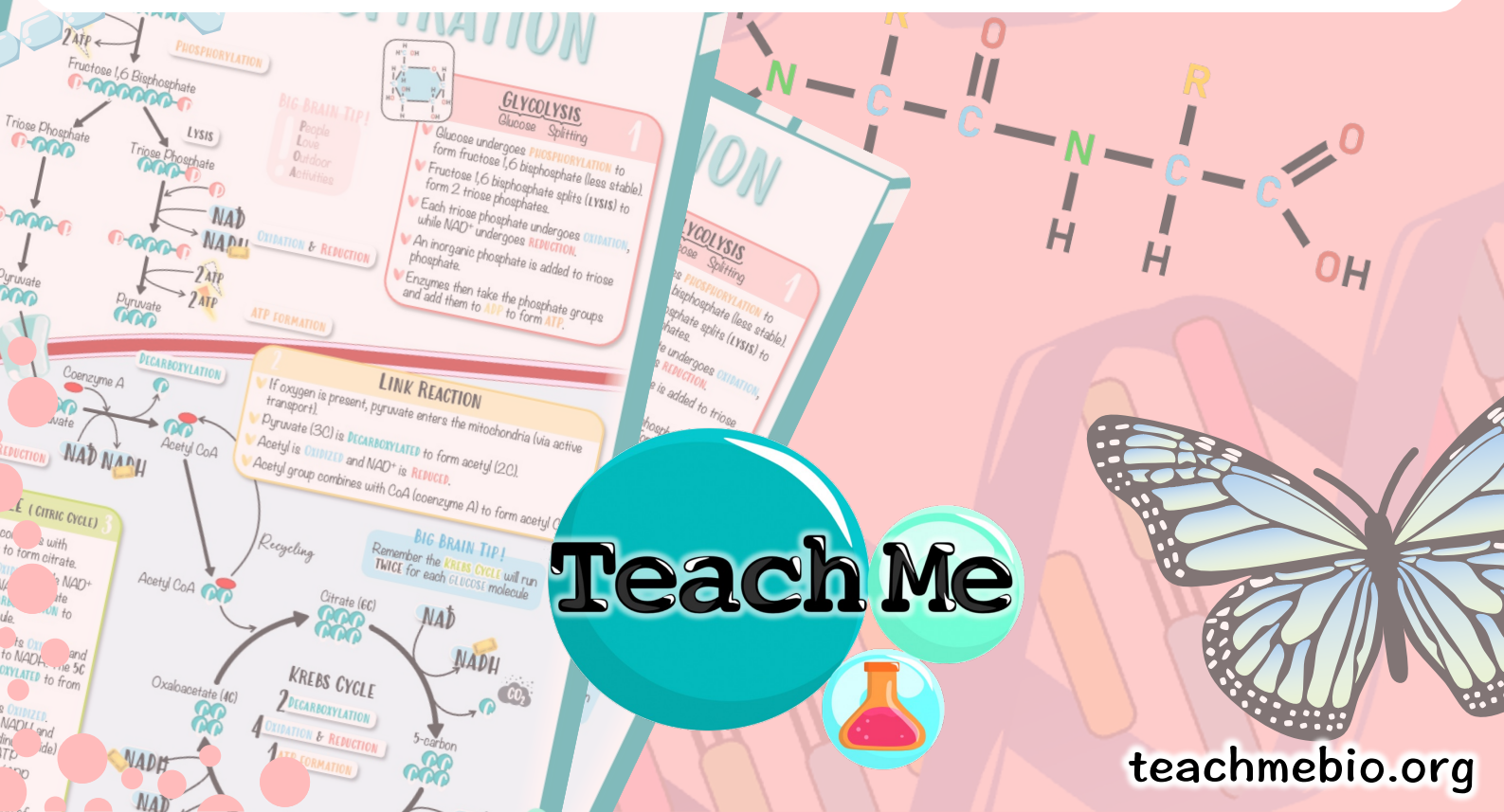


TeachMe

STUDY NOTES

CHAPTER 16 - INHERITANCE

MONOHYBRID INHERITANCE



MONOHYBRID INHERITANCE



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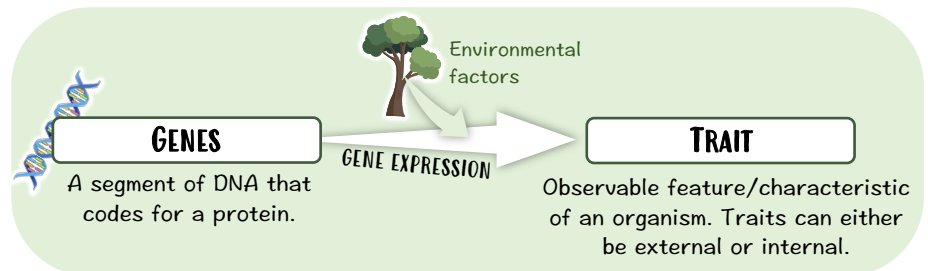
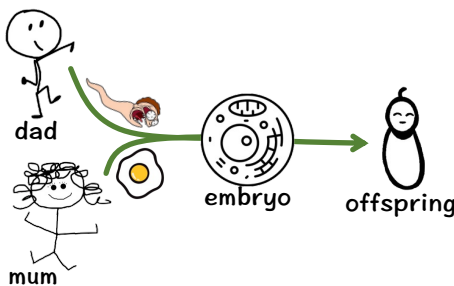
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Part 1 THE BASICS OF INHERITANCE

1. WHAT IS INHERITANCE?

Inheritance is the transmission of genetic information from parents to offspring through DNA.

The GENETIC INFORMATION inherited from both parents can be expressed to be displayed as a trait. Traits are influenced not only by genetics but also environmental factors:

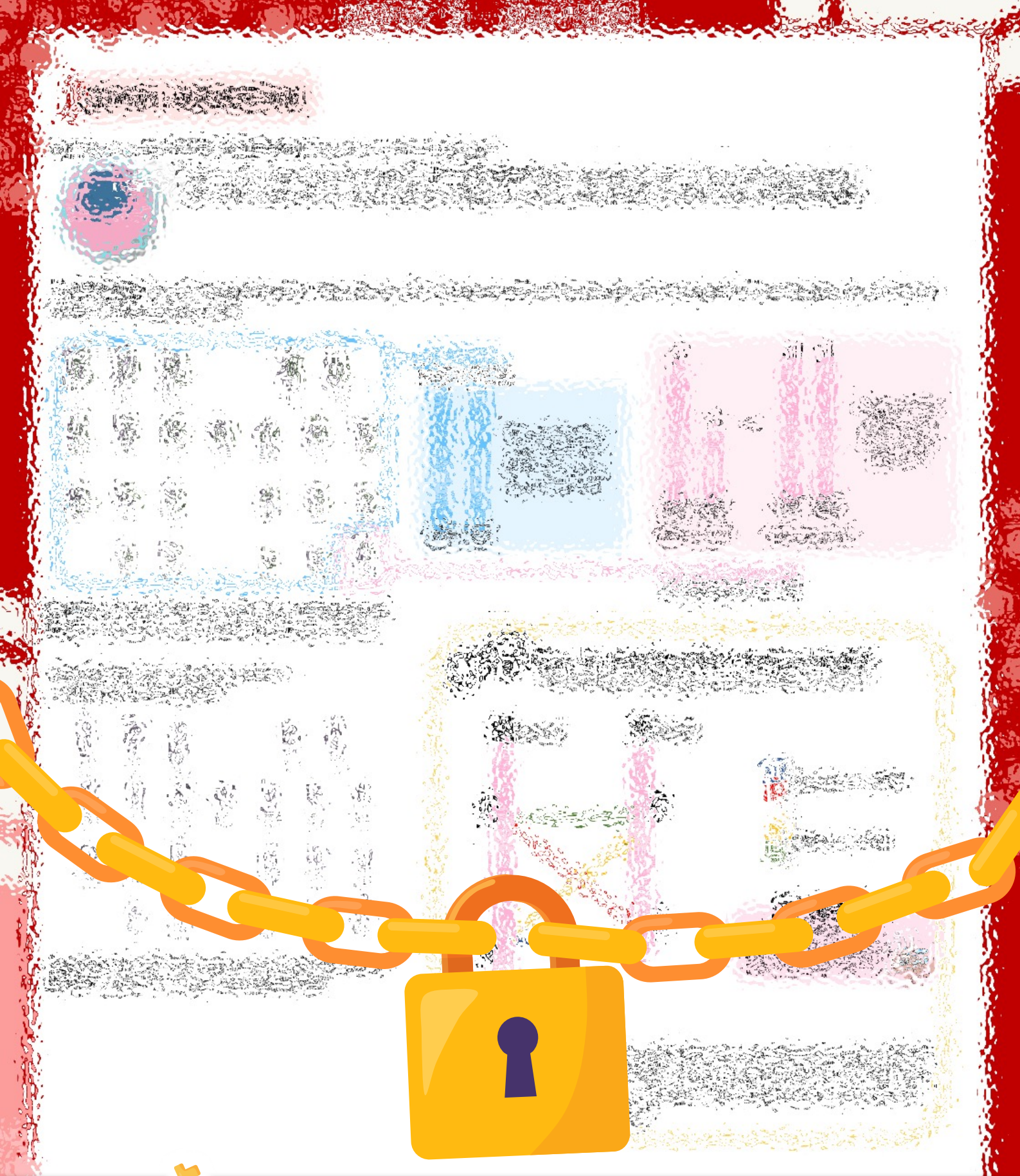


Two haploid cells (n), the egg from the mother and sperm from the father, come together in a processes called **FERTILIZATION**. The resulting cell is diploid ($2n$), a zygote, which will divide to eventually form the full baby.

Sperm cells are formed through spermatogenesis, and egg cells are formed through oogenesis.

Traits may be influenced exclusively by genetics, exclusively by the environment or by both. Here are some examples:

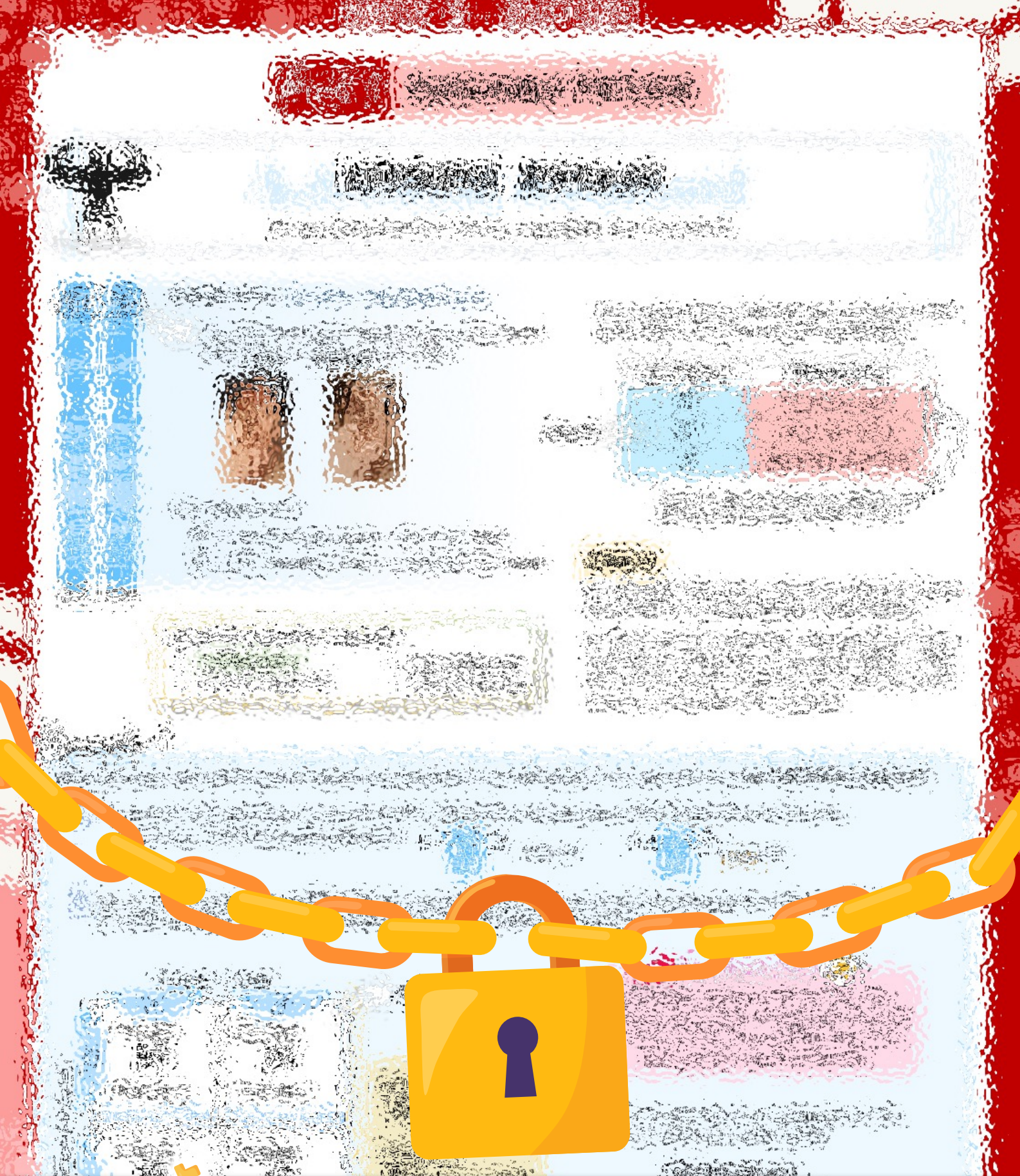
Exclusively determined by GENETICS	Exclusively determined by ENVIRONMENT	Determined by both GENETICS & ENVIRONMENT
Features: • ABO blood type Disorders: • Huntington's disease • Hemophilia • Color blindness	Learned behaviors (math, learning new song, etc...) Acquired physical traits: • Scar • Tattoos	(1) Height • Max height is genetic. Need nutrition in order to reach your potential. • May have genetic component, but can also be triggered by cancer causing substances from the environment. (3) Muscle building • Need to train, but your muscle building potential depends on your genetics.



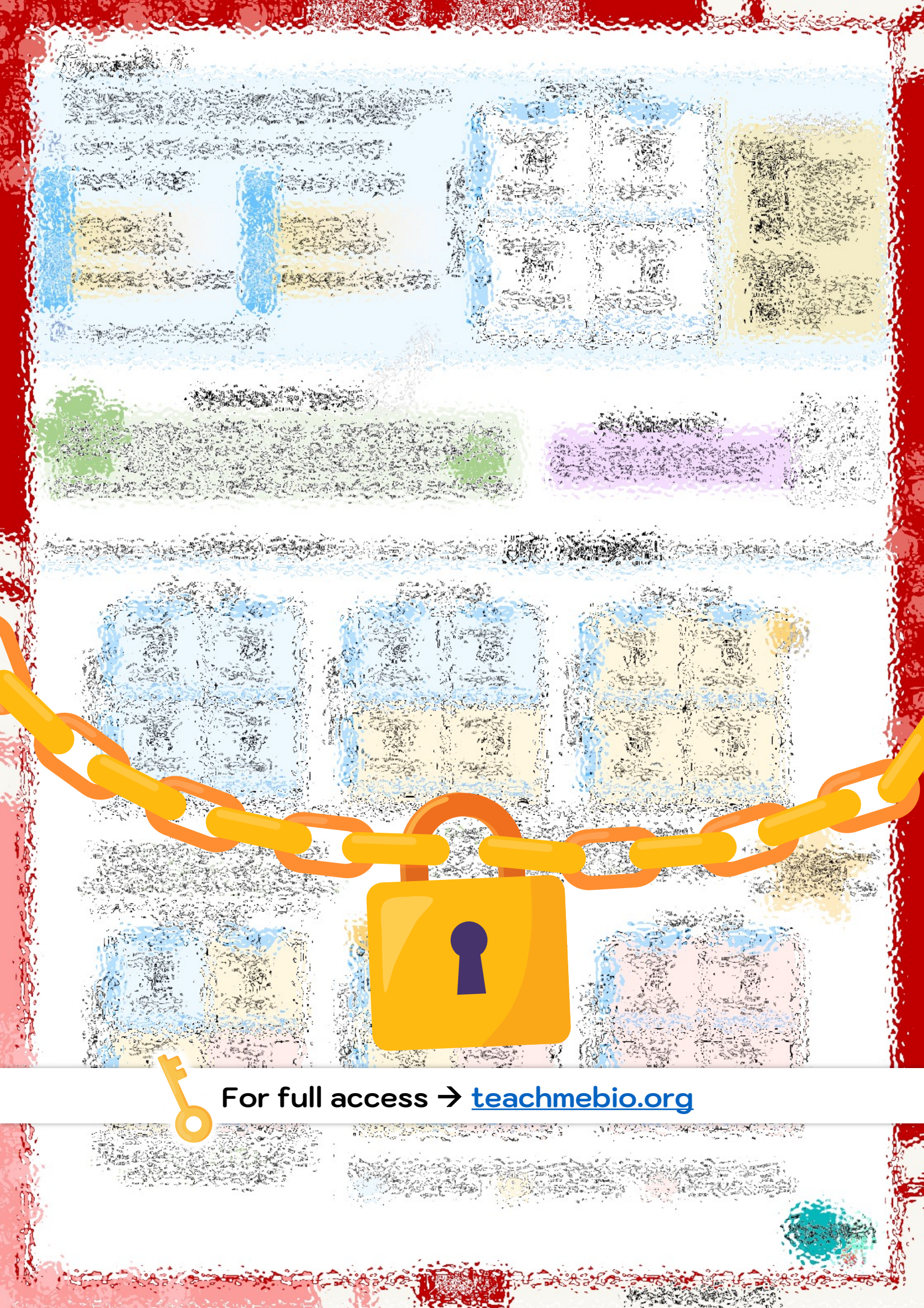
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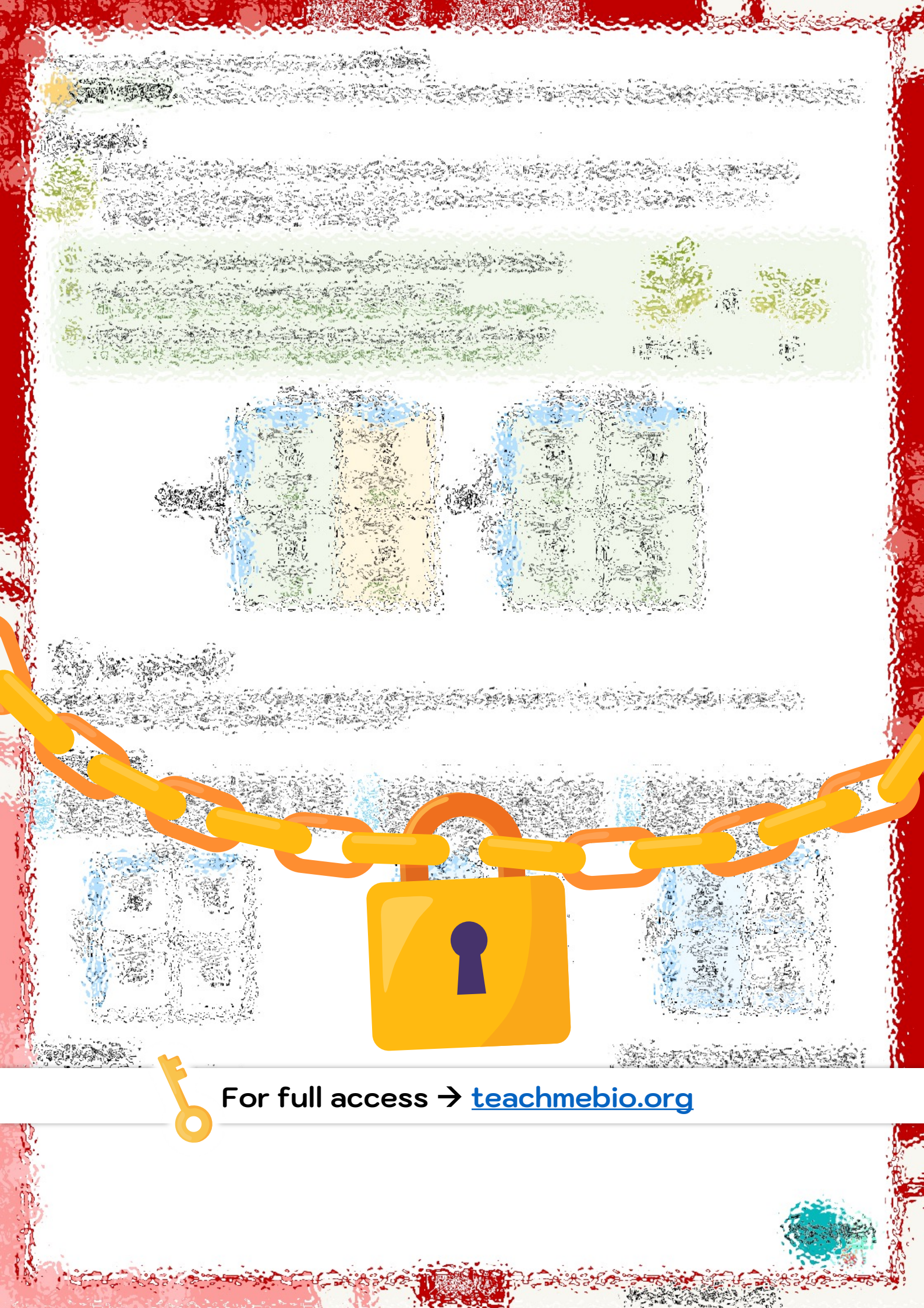
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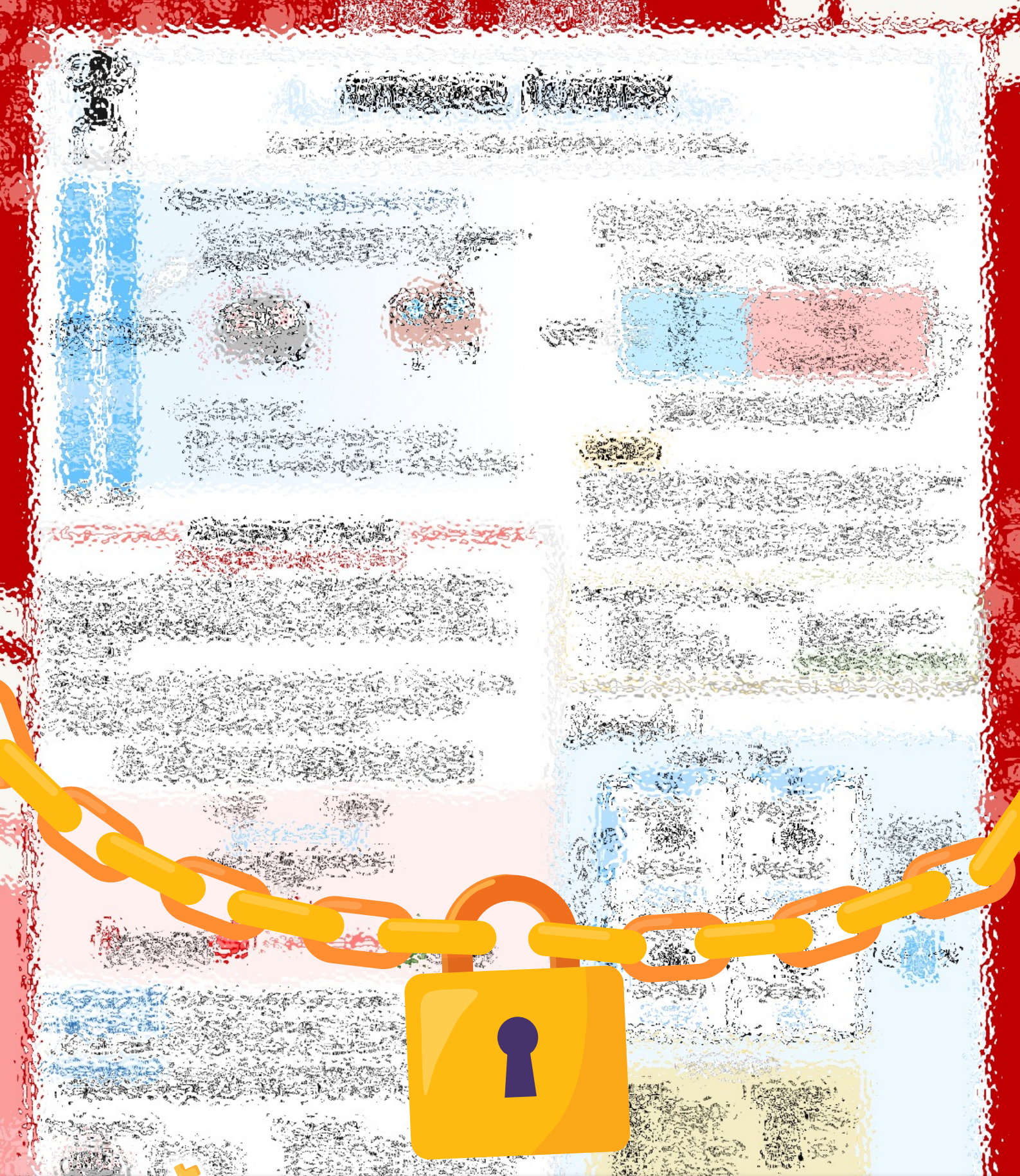
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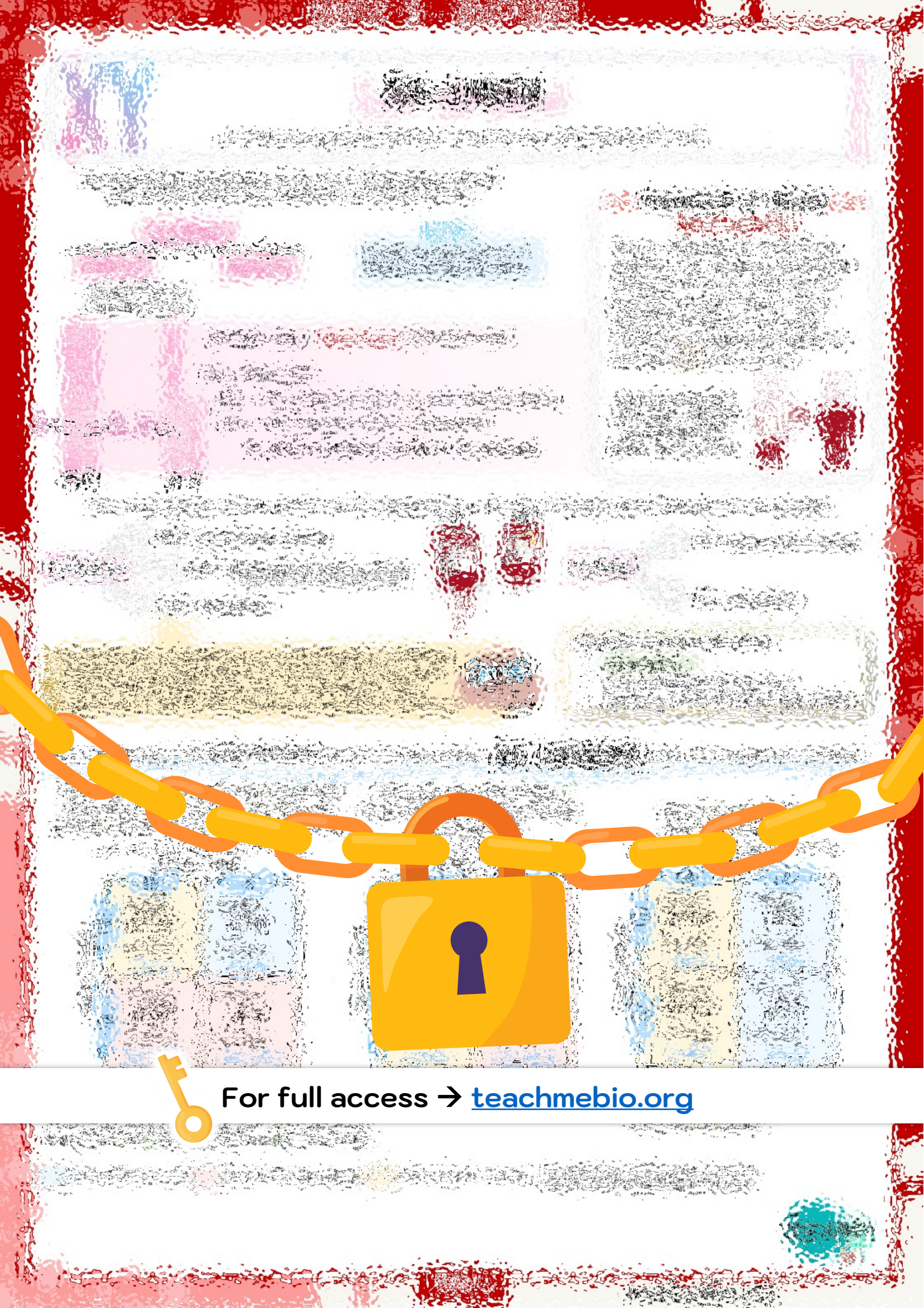
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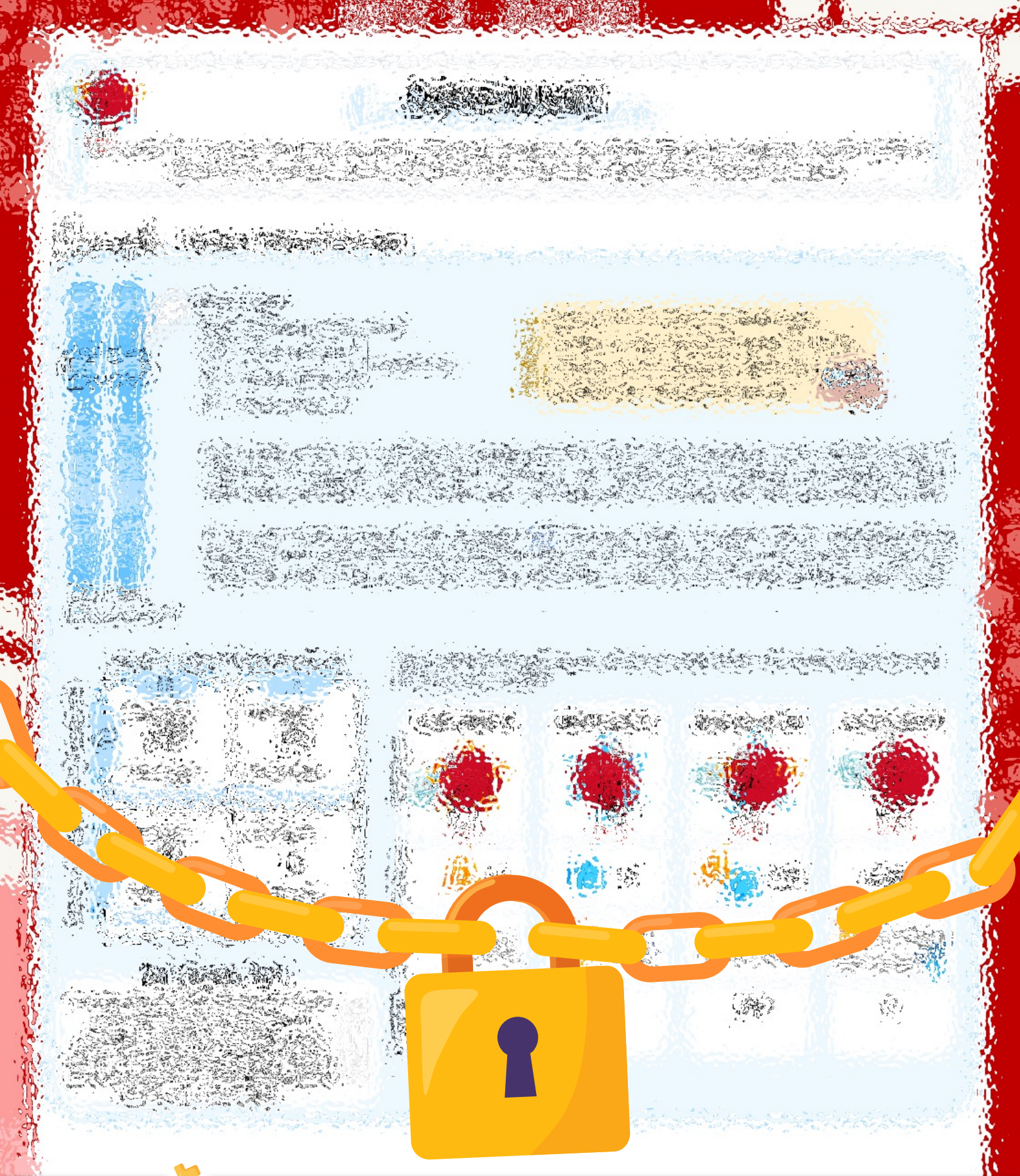
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