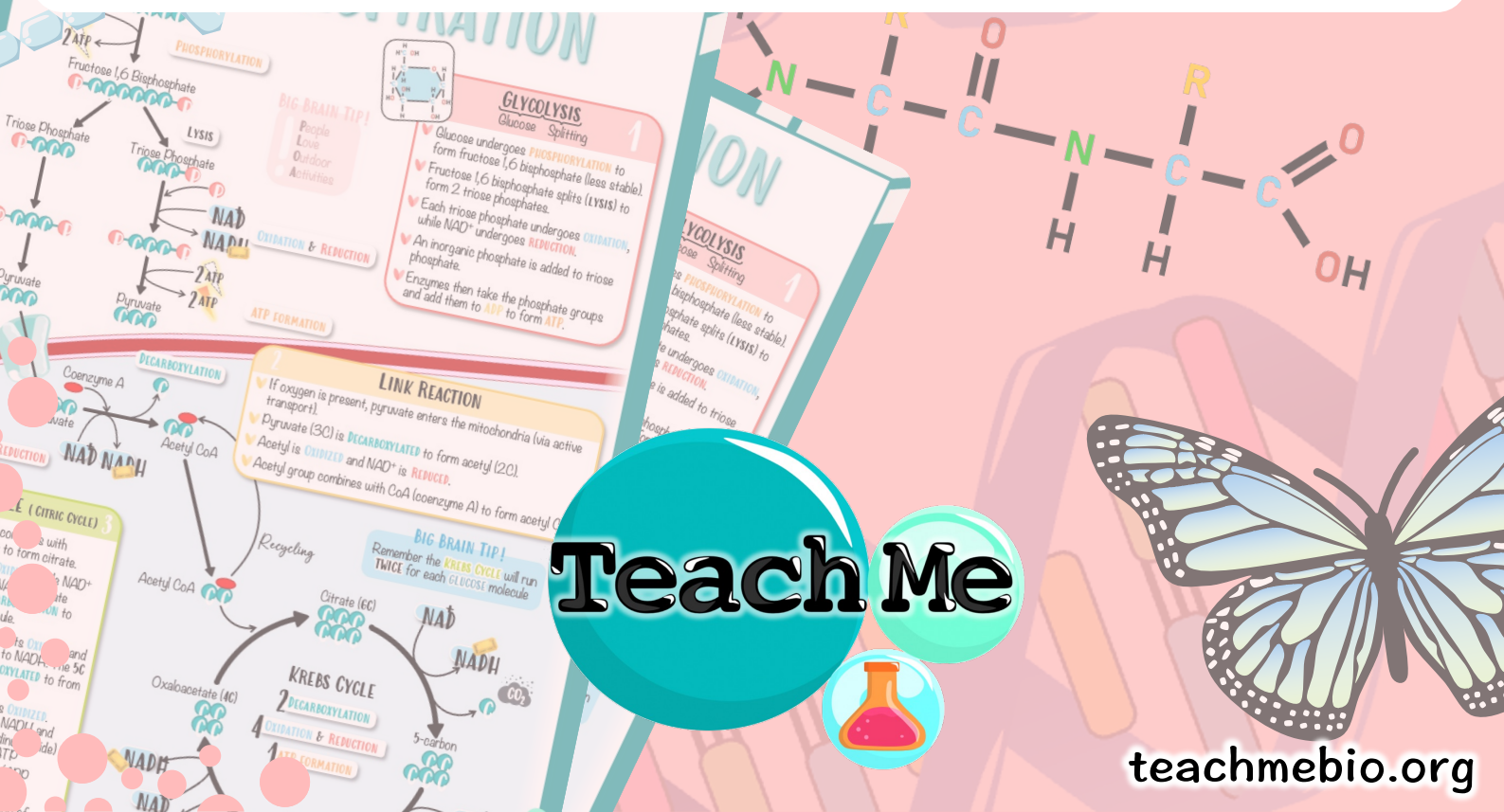


TeachMe

STUDY NOTES

CHAPTER 19 – GENETIC TECHNOLOGY

PCR & ELECTROPHORESIS



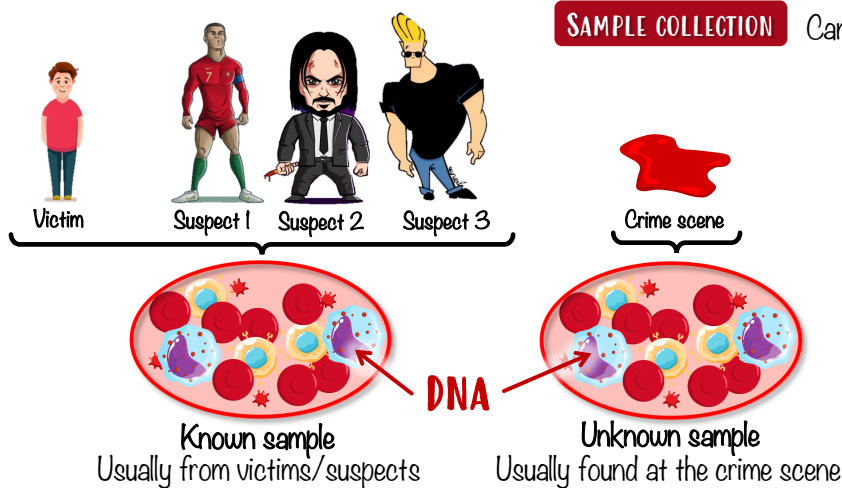
PCR & ELECTROPHORESIS

DNA PROFILING

The process of matching an **UNKNOWN** sample of **DNA** to a **KNOWN** sample of **DNA** to see if they correspond. Also called **DNA** fingerprinting.

DNA profiling includes **5** main steps:

Sample Collection → DNA Extraction → PCR → Gel Electrophoresis → Results Interpretation



DNA EXTRACTION

but...

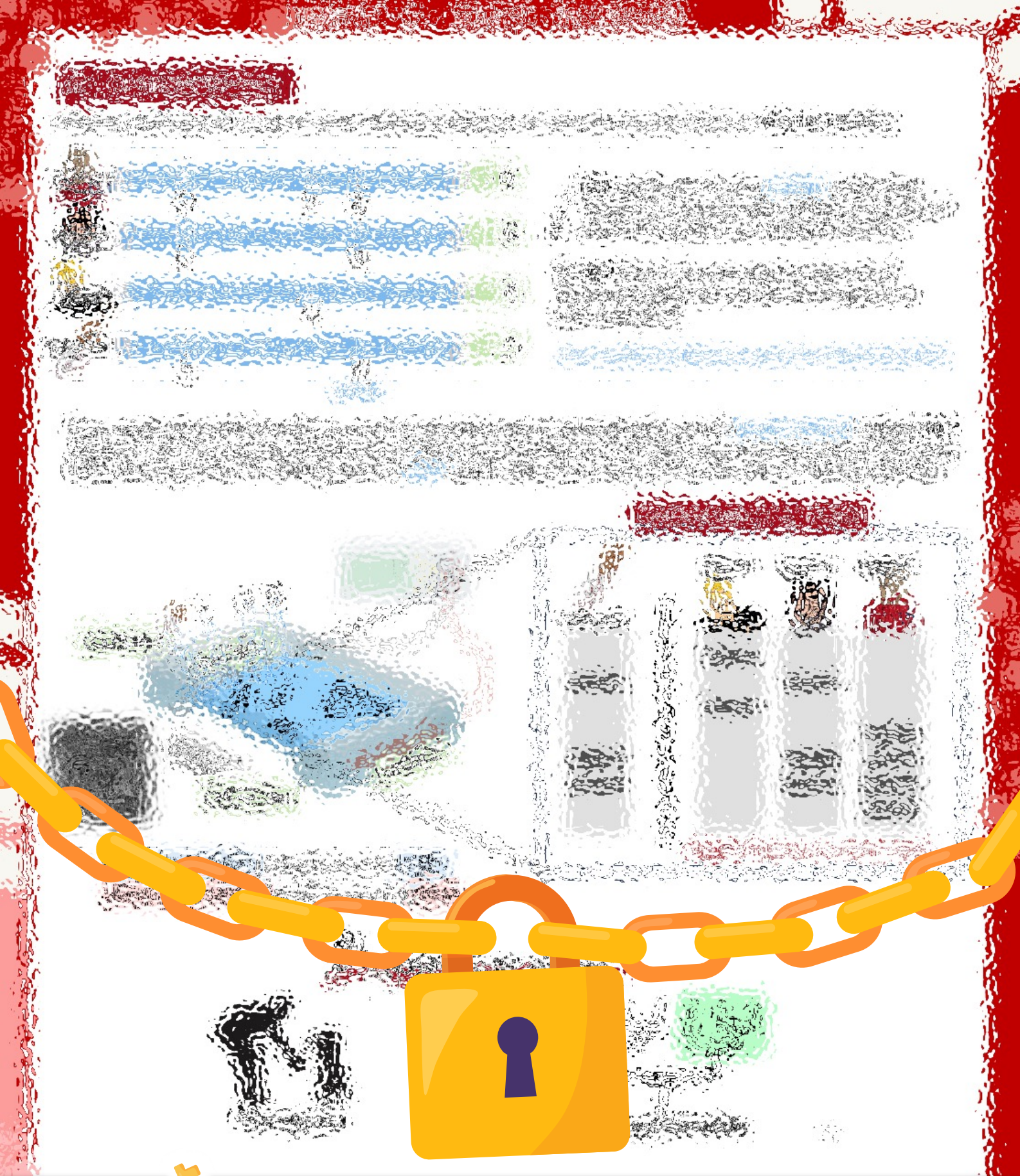
Normally, the **DNA** from a crime scene is **NOT ENOUGH** to analyze for the scientist.

So we need to replicate this **DNA** sample multiple time using a technique called **PCR** (Polymerase Chain Reaction) to obtain a larger sample (think of it as a photocopier)

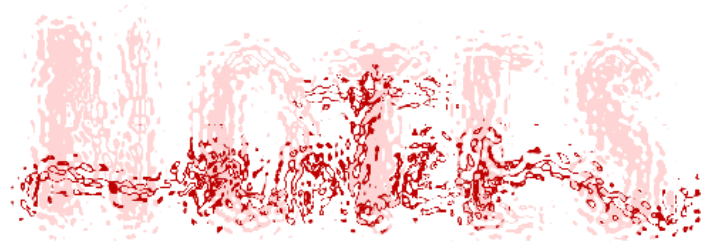
POLYMERASE CHAIN REACTION (PCR)



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