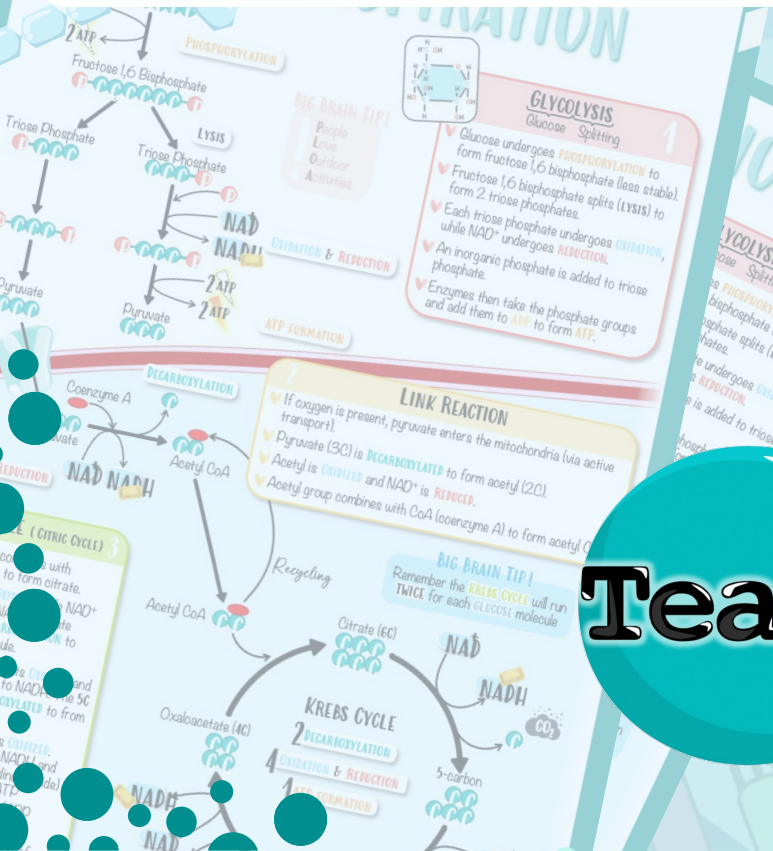
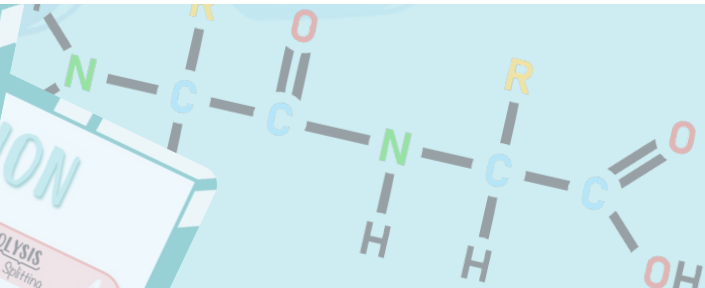
TeachMe

STUDY NOTES

CHAPTER 6 - NUCLEIC ACIDS & PROTEIN SYNTHESIS

DNA REPLICATION





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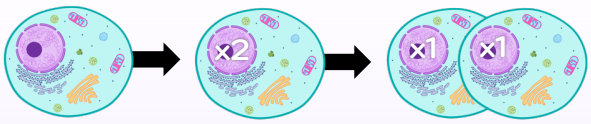
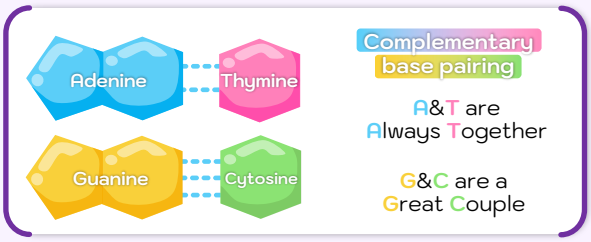
DNA Replication

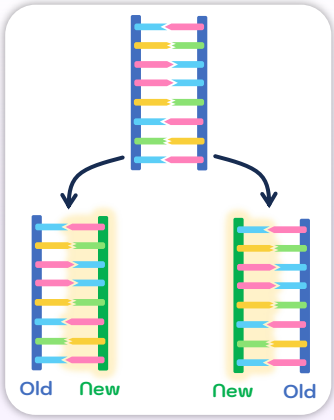
DNA Replication is the process of duplicating (making a copy) of your DNA.



As discussed in Chapter 5, cells divide through **mitosis** to enable growth, repair damaged tissues, and replace old cells. To ensure that each daughter cell receives the **same genetic information**, the cell's DNA must first be replicated during the S phase of interphase before mitosis can occur.



DNA replication is → SEMI-CONSERVATIVE



COMMON MISCONCEPTION!

DNA replication **does not** produce one completely old DNA molecule and one completely new DNA molecule!

Reality: Each daughter DNA molecule contains **one old** strand and **one new** strand.

Make sure you remember well the **structure DNA!**

DNA REPLICATION PROCESS

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NOTES