

DNA: THE CODE OF LIFE

Prok	Euk
Single layer (flagella attached)	Double layer
Nuclei	Nucleus
Nucleolus, ribosomes?	Nucleolus
Cell envelope	

↳ From the inside of cell to work.
 The structure of nucleic acid
 Two type of nucleic acid
 Deoxyribose & ribose sugar



DNA found only in eukaryotes
 RNA found in prokaryotes
 RNA found in viruses and attached to a ribosome

Deoxyribonucleic acid
 - nucleic acid, genetic material
 - nucleic acid that encodes genetic information
 - DNA is a double helix
 - DNA is a polymer of nucleotides
 - DNA is a long chain of nucleotides
 - DNA is a long chain of nucleotides
 - DNA is a long chain of nucleotides

PROTEIN SYNTHESIS

- Transcription**
- occurs in the DNA nucleus
 - double-stranded DNA unravels to form two opposite strands
 - the strand to used is a template
 - to form mRNA
 - using this that messenger RNA the messenger
 - the mRNA is complementary to the DNA
 - which can be the code message for protein synthesis
- Translation**
- each strand carries a genetic information
 - each are attached to the other
 - transfer with the strand on the other
 - they then bring the required amino acids to the ribosome
 - these amino acids are joined to each other by peptide bonds to form the required protein

DNA REPLICATION

What is DNA replication?

- each hydrogen bonds between the complementary nitrogen bases bonds
- The two new strands unwind and form a replication bubble
- Initiated by enzymes

What is DNA replication?

1. Each hydrogen bond of the DNA is a hydrogen bond
2. The original strands of DNA is split
3. For the nucleotides on either side the hydrogen bonds break along the length of one of the DNA legs the complementary strand the complementary nitrogen bases the complementary strands with the complementary nitrogen bases

What is DNA replication?

1. New complementary strand forms to the original template
2. The result is 2 genetically identical DNA molecules
3. The 2 new DNA strands are equal to their parents

If the parent strands are attached to the original strands
 a replication of their strand in the new DNA molecule
 resulting in a change to the gene structure

Genotyping

- identifying particular traits such as height
- migration
- forensic science for organ transplants
- identification of genetic disorders
- paternity testing
- identify disease carriers

Formal Life Science Grade12014

M Tight



Formal Life Science Grade12014:

Reviewing **Formal Life Science Grade12014**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Formal Life Science Grade12014**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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