DNA helicase

joins two nucleotides

each new DNA molecule contains one original strand

Cytosine

Adenine

pairs with Guanine

proved that DNA is replicated semi – conservatively

polynucleotide

ribose

formed between T and A

pentose sugar found in DNA

base found in RNA not DNA

describes base pairing – A always with T, G with C

DNA polymerase

breaks the H bonds that link base pairs

between the sugar
of one nucleotide
and the phosphate
of the next
3 hydrogen bonds
Nucleotide
pairs with Thymine
a long chain of mononucleotides
a single stranded chain
condensation reaction
formed between C and G
Uracil
deoxyribose
Heavy isotope used to investigate DNA replication
Meselsohn and Stahl
15N
joins nucleotides to form a new strand
RNA
complementary
pentose sugar found in RNA
Composed of a sugar, phosphate and base
phosphodiester bond
2 hydrogen bonds
semi conservative replication