Cytosine
pairs with Guanine
Adenine
pairs with Thymine
Meselsohn and Stahl
proved that DNA is replicated semi – conservatively
Nucleotide
joins nucleotides to form a new strand
Composed of a sugar, phosphate and base
DNA polymerase
phosphodiester bond
between the sugar of one nucleotide and the phosphate of the next
15N
heavy isotope used to investigate DNA replication
complementary
describes base pairing – A always with T, G with C
DNA helicase
breaks the H bonds that link base pairs
3 hydrogen bonds
RNA
each new DNA molecule contains one original strand
formed between C and G
a single stranded chain
semi conservative replication
Uracil
base found in RNA not DNA
condensation reaction
joins two nucleotides
polynucleotide
a long chain of mononucleotides
deoxyribose
pentose sugar found in DNA
ribose
pentose sugar found in RNA
2 hydrogen bonds
formed between T and A