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DNA polymerase begins to synthesize a new DNA strand by extending an RNA primer in the 5' to 3' direction. Each parental DNA strand is copied by one DNA polymerase. Remember, both template strands move through the replication factory in the same direction, and DNA polymerase can only synthesize DNA from the 5' end to the 3' end.

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DNA is a type of nucleic acid. DNA is a polymer. The monomer of a nucleic acid is a nucleotide. A nucleotide is made of a 5-carbon sugar, a phosphate group, and a nitrogen base. There are two types of ribose sugars: ribose and deoxyribose. Deoxyribose sugar has fewer oxygen atoms than ribose sugar.

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