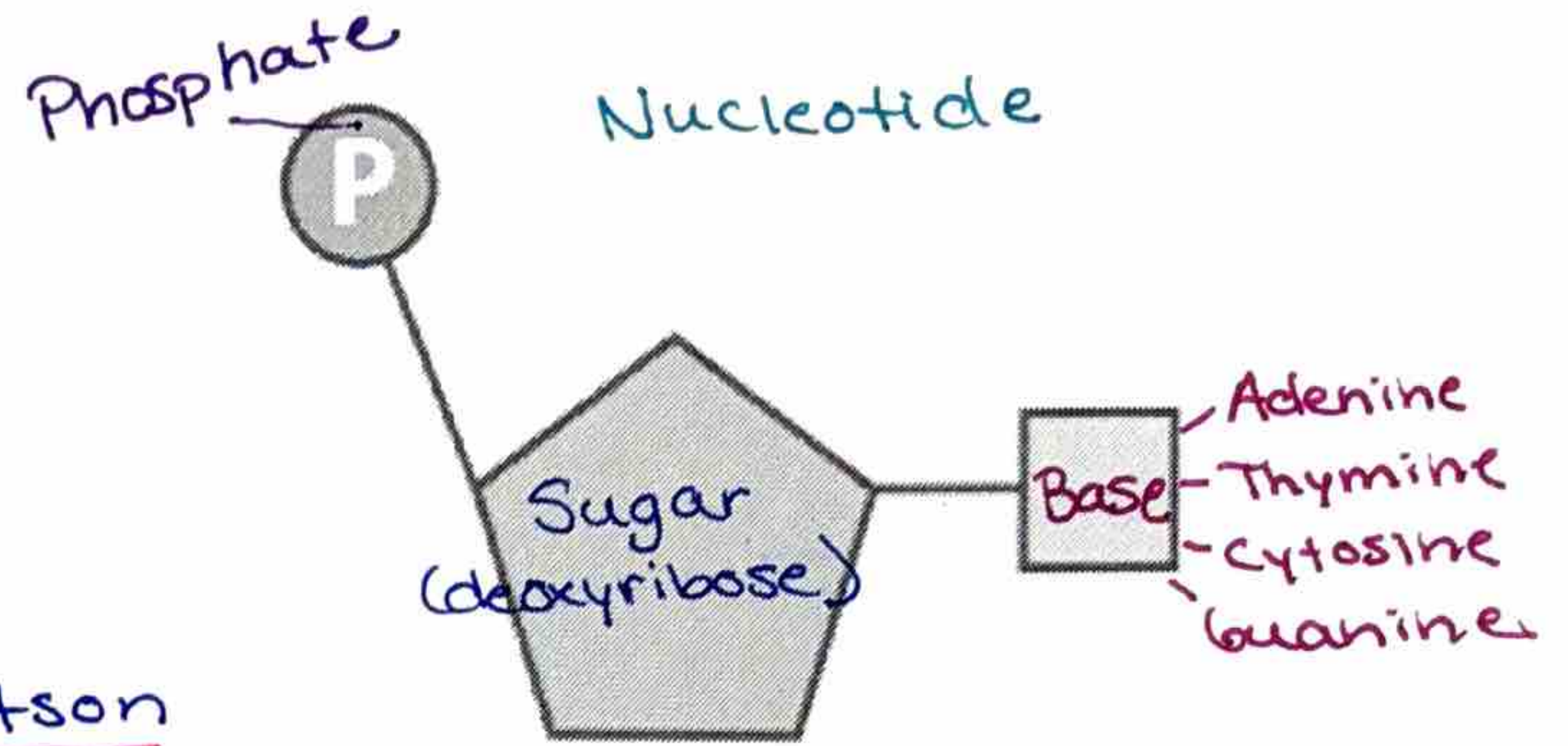
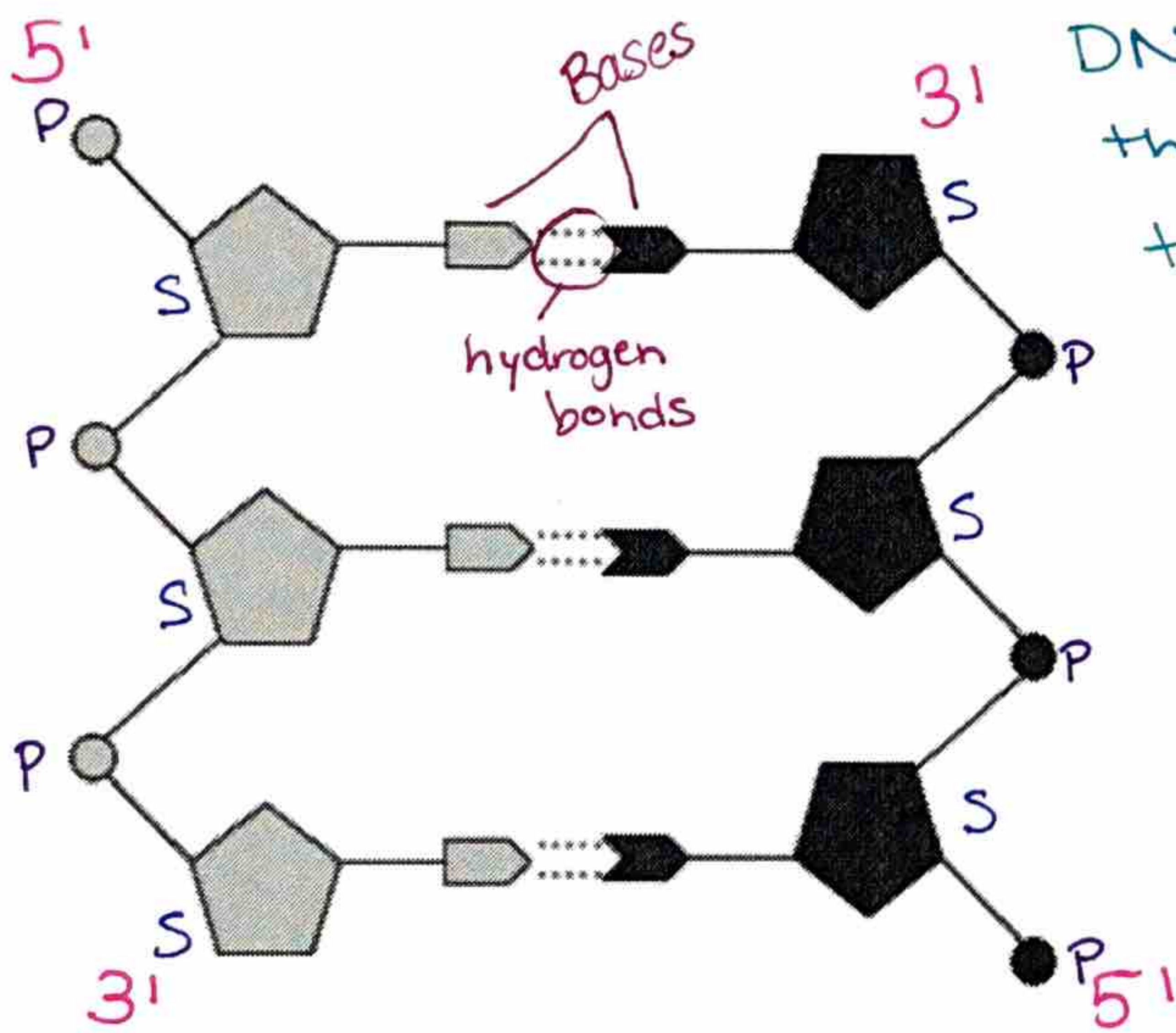


### DNA Structure Review

- DNA = deoxyribonucleic acid  
↳ located in the nucleus
- made up of nucleotides (sugar phosphate, base)



DNA's structure was discovered by Watson and Crick (but they came to their conclusion using Rosalind Franklin's data/picture)



DNA's structure is called the double helix, it's like a twisted chemical ladder

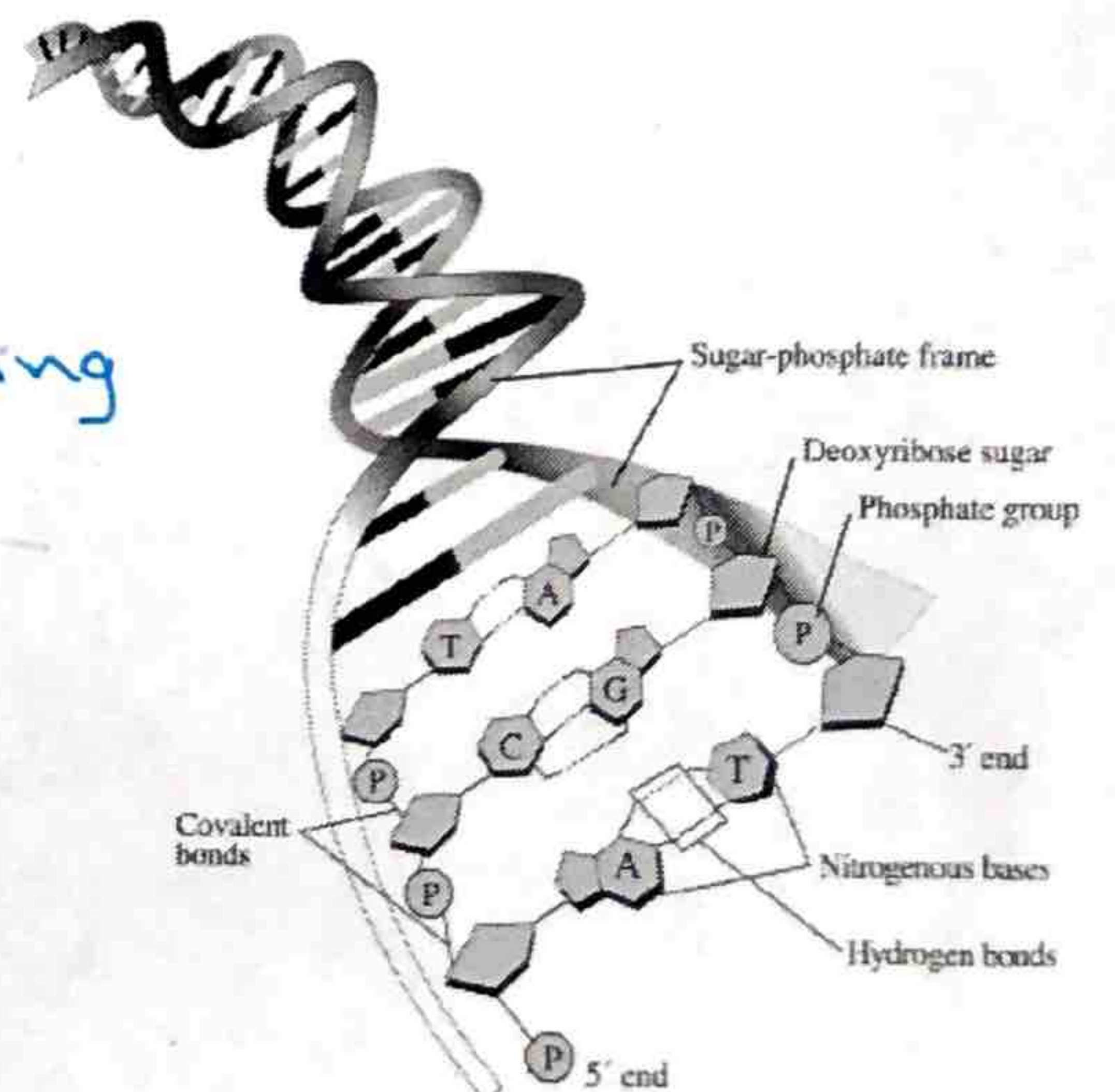
- Sides are alternating sugar + phosphates
- rungs (steps) of the ladder are nitrogen bases held together with hydrogen bonds

DNA is directional, each side complements the other, one side runs 5' → 3', the opposite is 3' → 5'

- the end with a phosphate is always the 5' end

The genetic code is universal for all living things on earth.

- different organisms only vary in the amount and order of nucleotides





Complete the other half

5'  
T —  
A —  
G —  
A —  
C —  
T —

3'

— C 3'  
— G  
— A  
— A  
— T  
— G  
— T

5'