Name:	: Cpt Tucker	Date:	Page
	Discovery of [ONA Structure Notes	
1. Th	e Importance of the Discovery of DNA Stru	cture	
DNA is	s the molecule that contains <u>apartic in</u>	nformation for	
DNA F	repulcate itself	MIS THINGS	
•	have enough diversity that hape of a DNA molecule can be described as a	to code for all	dif orgs.
The sh	hape of a DNA molecule can be described as a	adouble helix.	
Many	scientists contributed to the discovery of DNA	structure	
2. Wa	atson and Crick…		
	Were the first to come up with $MOMble$	nelix modero	DNA
	Rather than carrying out experiments in the I	ab, they <u>brought</u>	together
	data from dif. research	ners	J
3. Ro	osalind Franklin…		
	Was an expert in a technique for deter	mining the St	nucture of molecule
	called X-VAY CVYSTALLOGRAP	nhy	
	Her famous image called phuh 51 suggested a helical, two stranded		
	structure for DNA.		
4. Er	win Chargaff		
	Analyzed DNA and found out it was compose	ed of A, T, C, G	bases.
Chargaff's rule says that <u>(AM AM F OF A = T MOUNT OF C = G</u>			
	H N-HO Me	N O N H N H	H H-N N-N N-N R

A·T base pair

G·C base pair

RULL TO DISCOVEY HUN IS generic into stoved, organized, passed on? most ppi thought protein DNA CTDICTION **DNA STRUCTURE** in chamanas Off nucleunde=monomer DNA is built from nucleotides, Nitrogenous base small molecules made of a base, a sugar, and a phosphate. Many nucleotides bind with each other Sugar to make a DNA double helix. The sides of the helix, or the backbone, are made of strands Phosphate of sugars and phosphates. holds MNUT togeth The rungs are made of Adenine **Thymine** two bases, one from each side of the helix. There are four bases; adenine, guanine, cytosine, and thymidine. Each base can only bind with one other base. Adenine always binds with thymidine, and Cytosine Guanine guanine always binds with cytosine. Sugar-phosphate Bases Sugar-phosphate backbone backbone LABEL EACH PART OF THE DNA STRUCTURE BELOW: sunine 4. Phosphate 5. thumine adenine