	Name			
	Date	Period	1 2 3	4 5
DNA Worksheet			5' end	3' end
• Completives: • Know the building blocks and structure of DNA	• Replicate DNA	L		كمخمخ
Structure of Nucleic Acids				-S
1. The building blocks of nucleic acids are known as	•	Synthesis in this direction	40	۰ <u>م</u>
2. Draw and label the three parts of a nucleotide.		120	G A-Q-Ce	\$
		Care Care Care Care Care Care Care Care	Synthese this dire	sis in iction G 3' end
2. Discours and label the true tomos of nitus concurs haves				

3. Diagram and label the two types of nitrogenous bases.

Function of DNA

- 1. The acronym DNA stands for ______.
- 2. DNA makes up chromosomes, which are located in the ______ of a cell.
- 3. Small sections of a DNA molecule that determine genetic traits are called ______.

Structure of DNA

- 1. The sugar found in DNA is ______.

 2. The pyrimidine bases are ______ and _____.
- 3. The purine bases are ______ and _____.
- 4. In complimentary base pairing, _____ bonds with _____ and _____ bonds with _____.

Diagram of DNA molecule

- 1. A DNA molecule consists of _____ strands.
- 2. DNA is a long chain made of repeating units called ______.
- 2. Nucleotides are attached by bonds between the ______ and the phosphate group.
- 3. DNA is shaped like a _____ helix.

		Name Period 1 2 3 4 5 6		
ATT		Date Period 1 2 3 4 5 6		
	4. Wh	at are the "sides" of the DNA ladder made of?		
Va	🔰 5. Wh	at are the "rungs" of the DNA ladder made of?		
	6. Dia	gram and label a section of DNA		
X				
C				
ALCA GC				
	10			
AG				
C-	-G			
A-	-T			
C-	-G			
T-	-A			
G-	-C	DNA Replication		
A-	-T	1. The replication (exact duplication) of DNA begins with the		
T-	-A	of the double helix.		
C-	-G	2. DNA replication is said to be		
G-	-C	because each strand acts as a template to construct the other half of the molecule.		
A-	-T	5. Show the complimentary base pairing that would occur during		
		replication of this DNA molecule to the left. Notice how two strands		
C-	-G	are made from one.		
T-	-A	6. Below, fill in the missing bases from this DNA molecule.		
G-	-C			
A-	- T			
C-	-G			
G	-C	GСТА СА СGСА		
A-	-T			