BARATA	TD	-4:
DNA	rra	ctice



- 1. What is the name of the Molecule that is responsible for running all of the processes in the cell?

  \*\*DNA\* C Peoxyribonicleic Acid\*\*

  \*\*DNA\* C Peoxyribonicleic Acid\*\*
- 2. What are the individual subunits of a nucleic acid called?

## nucleotide

3. What are the three parts of a nucleotide?

phosphate group - 5 carbon sugar - nitrogen base

4. What are the four types of nitrogenous bases?

A, T, G, C

5. What is the name of the sugar in DNA nucleotides?

## Deoxyribose

6. What is the name of the bond that holds the separate nucleotides together?

Hydrogen bonds

- 7. Which nitrogen base pairs up with Adenine?
- 8. Which nitrogen base pairs up with Guanine?
- 9. Make the complementary strand of DNA for the following sequence of DNA -

ATAAGGCATAATGACCTAG TATTCCGTATTACTGGATC

- 10. What is the shape of DNA? Double helix
- 11. How does DNA replicate?

Occurs in the 5-phase of Interphase.

- 1. ONLA Strands unzip
- 2. Free nucleotides base pair to make new strands
- 3. Get 2 identical molecules
  OF DNA

	Name: Ry	Hour:
1. Where is the DNA located in the cell?  nucleus (fu)	( Pro in cytoplas,	m)
2. Chromatin forms what?  ChromosomeS		*
3. Is DNA large or small?		
4. How many strands make up DNA?		
5. What is the subunit of DNA?  nucleo ticle	(	P)
6. What are the three parts of a DNA subunit?  Phosphake-Sugar-	nitrogen Base	12)-3
7. What makes up the backbone of the DNA mole.	cule?	
8. What are the four chemical (Nitrogen) bases?  A Adenine T Thymine (, C	ytosine G, Gunnie	re
9. How do the bases pair?		
A-T G-C		
10. What are genes made of?  Segments of DNA	4	
11. Genes hold instructions for making what?  Profeins		
12. What are proteins made of?  amino acid.	S	*
13. How many amino acids are there?		
14. How many nucleotides/bases are used to make	a genetic code/codon?	n)
15. Why is DNA replication important?  50 each (ell has a	set	٠
of instructions		