Name: Key

## **DNA Review Worksheet**

		What does DNA stand for? deoxyribonucleic acid
	2.	Where in a cell is DNA found? nucleus of enkangotic cells of
	3.	What is the difference between chromatin and chromosomes?
both	de	HOD DNA DNA
both	id	his of unuound tightly wound
	4.	How many PAIRS of chromosomes does a human have in their skin cells? 23 pairs
	5.	A segment of DNA that codes for a protein is called a
	6.	What are the three parts of a DNA nucleotide? Label the three parts of a DNA nucleotide
		a. <u>oleoxynbose sugar</u> lgc
		b. phosphate group
		c. nitrogen base cytosine cytosine
	7.	What 4 bases make up DNA molecules? adenine, thymine guanine
	8.	Scientifically, describe the shape of a DNA molecule. double heltx
	9.	What type of bond holds together the nitrogen bases? hydrogen bond
		a. How many hydrogen bonds are found between A-T? 2 C-G? 3
	10.	What scientists are credited with the "base-pairing" rules?
		a. Chargaff's rule
	11.	What are the base pairing rules?
		A=T; $G=C$
	12.	Write the complementary stand to this DNA molecule on the line.
		5' GATCCATGAGTTAC 3'
		3' CTAGGTACTCAATG 5'
	13.	What is the importance of the order of base pairs in a DNA molecule? (Hint: what might happen if
		the order of the base pairs were changed?)
		order of bases determine gene
	14.	When does DNA replicate? <u>before new cell</u> is made
	15.	The order of nitrogen bases (A,T,C,G) determines the type of