Name:	Date:	Class:	
<b>8</b>			

Word	Zone:Chromosomes	and	Genes
Word	Zone:Chromosomes	and	Gene

trait -(n) characteristics passed on from parents gene locus -(n) the location of a chromosome mitosis -(n) the way cells divide to create new cells (cell division) centromere -(n) where chromatids are connected at the center gametes -(n) germ cells containing only half the chromosomes - creates new life (egg and sperm) zygote -(n) a new cell with the normal number of chromosome pairs - a fertilized egg crossing over -(n) the exchange of genetic material, where gene swapping occurs dominant -(n) the form of the gene that will mask the other from having effect allele -(n) — different forms of the same gene homozygous -(n) — having the same alleles for the same gene - AA, or as

Choose the best word from the vocabulary box to finish the sentences below.

1.	Chromatids are joined together at the	
2.	An is a different form of the same gene.	
3.	When cells divide, they go through	
4.	An example of a includes eye color, earlobes, and dimples.	
5.	A gene that masks the others is known as a gene.	
6.	The swapping of genes is known as	
7.	. When an egg is fertilized, it forms a	
8.	New life is created from	
9.	When an organism has the same alleles for a gene, it is said to be	
10.	). A location on the chromosome where a gene might be found is	



Quiz	Time:	Chromosomes and Genes Quiz
Directions:	Write	the letter of the best answer in the space p

hinto	
irections:	Write the letter of the best answer in the space provided, or write true or false for each statement.
1	What are three things you can find inside a cell?
a.	cell membrane, nucleus, alleles
	cell membrane, chromosomes, cytosine
c.	nucleus, DNA, cytoplasm
d.	chromosomes, cytosine, alleles
2	Where are genes found?
a.	on chromosomes
b.	on DNA
c.	in the nucleus
d.	in interphase
3	True or False? Chromosomes are tiny threads of proteins and DNA.
4	What does DNA stand for?
a.	Difference in the number of alleles
b.	Dominant number of alleles
	Deoxyribonucleic Air
d.	Deoxyribonucleic Acid
5	What are the four phases of mitosis?
a.	prophase, metaphase, cytokinesis, telophase
ъ.	
c.	
d.	interphase, metaphase, anaphase, cytokinesis
6	What is it called when the cytoplasm divides into two new cells?
a.	mitosis
b.	DNA
c.	meiosis
d.	cytokinesis
7	What are the three parts of the cell cycle?
a.	meiosis, mitosis, interphase
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- c. interphase, mitosis, cytokinesis
- d. cytokinesis, prophase, interphase



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Nai	me		Date Class
	8.		What do you call a matching chromosome?
		a.	chromatid
		ь.	homologue
		c.	heterologue
		d.	heterologue
	9.		True or False? Mitosis produces clones and meiosis produces zygotes.
	10.		Who was an important part of genetics?
		a.	Gregory Mendel
		Ъ.	Adam Mendel
		C.	
		d.	Thomas Edison
	11.		True or False? The genetic makeup is called the genotype and the observable trait is
		called	the phenotype.
	12.		What are the four different nitrogenous bases in DNA?
			guanine, chromosomes, cytosine, thymine
			adenine, cytosine, cytoplasm, thymine
			adenine, cytosine, guanine, thymine
		d.	cytosine, guanine, thymine, cytoplasm
	13.		True or False? Adenine pairs with thymine.
	14.		Three nitrogenous bases make up a
		a.	nucleus
		b.	chromosome
			guanine
		d.	codon
	15.		What is the name of the project that has scientists trying to make clones by mapping
		every	gene in a human and where they are located?
			Human cloning project
			Human Genome Project
			Dolly's project
		d.	Joe's science project