Name:	Date:	Period:
Define the words listed below. 1) Heterozygous		
1) homozygous		
2) allele		
3) genotype		
4) hybrid		
5) nucleus		
6) transfer RNA		
7) ribosome		
8) messenger RNA		
9) phenotype		
10) purebred		
11) probability		
12) Codon		
13) amino acid		
14) Describe the process of protein synthes protein in the cytoplasm.	is begin with DNA	in the nucleus and end with a

15) Describe the process of photosynthesis including 1) <u>ingredients,</u> 2) where in a cell happens, 3) <u>products,</u> and an 4) <u>accounting for where the "energy" is</u> (4 points)
16) What happens during respiration? (1 point)
Fill in the words in the sentences below. 17) The different forms or versions of a gene are called
18) Complete a Punnett's square for the trait, pod color, in peas. (3 points)
G is dominant for green color. g is recessive for yellow color
Parent is homozygous green and parent 2 is homozygous yellow.
Alleles from P1
Alleles from P2
How many possible genotypes are there?
What is the probability that the offspring will have yellow pods?

19) Describe what happens during each of the three main stages of the cell cycle. (3 points)

22) List and Describe the 8 steps of Inquiry

20) What is a chromosome? (1 point)
21) Illustrate the stages of Meiosis and Mitosis, label the stages with a few words to describe what is happening. (3 points)

Circle the correct response						
23) In the genetic code a gro	up of 3 nitrogen bas	ses code for	the proc	duction of s	pecific	
a) messenger RNA	b) protein					
c) transfer RNA	d) amino acids					
24) For co-dominant traits, h	eterozygote offspri	ing have the	phenoty	pe of		
a) both alleles		b) only the recessive allele				
c) neither the dominant nor t	the recessive	d) only the dominant allele				
Compare and Contrast						
25) Compare and contrast RNA	and DNA (3 points)					
26) Proteins are made of	·					
27) According to the chromos parents to their offspring on	•	ritance,		_ are carrie	ed from the	
28) Given that Long hair L is do	ominant and short hai	i r l is recessi	ve.			
Show the possible outcom (homozygous) short haire	_ ·	urebred (hom	ozygous)	long haired v	vith a <u>purebred</u>	
<u>(11011102) godo / 01101 1</u> 11011 0		Alleles fro	om P1			
		Г				
Alleles from P2						

What is the probability that short haired will appear?