	Name
Genetics Test Review II	Period Date
1. Physical characteristics studied in genetics	<i>'ts</i>
2. Gregor Mendel cross-pollinated	<u> </u>
3. Factors that control traits	
4. Offspring the that always produces offspring with the pure/purebred	e same form of the trait as the parent:
5. What does a punnett square show? All the possible outcomes of a genet	ic cross
6. The likelihood that a particular event will occur is	
7. Give an example of a phenotype: <u>round eyes</u> ,	Square body, Colorblind girl
8. What is a genotype? <u>the genetic make v</u>	p (the letters)
9. A change that <u>reduces</u> the organism's chances of surv mutation.	ival and reproduction is a
10. A female whiptale lizard produces eggs that develop The offspring will be <u>identical</u> to the female	
11. Mark the following as inherited trait (I) or acquired	trait (A):
A Jo runs faster after 6 weeks of track practice	· •
Addy has dimples.	
A Samantha eats Skittles for dessert every night	ht.
A Alan completes essays that win competition	s.
Jessie has ear lobes that are attached.	
A Jane plays the drums well in the school thea	tre production.
12. A favorable mutation <u>increases</u> the org	ganism's chances of survival.
13. Which of the following is favorable? Place an "F" b	y each that applies.
Bears with white fur in the arctic	Monkeys with stronger tails.
A starfish with a nubbed leg.	Hummingbirds with short beaks.
F Light brown lizards in the desert.	Rattlesnakes with more poisonous venom.
Use the vocabulary word to complete the definitions.	
14. the passing of traits from parent to offspring:	heredity

21.	when both alleles are expressed; neither is dominant or recessive: Codominance
22.	the science that studies the laws of heredity: genetics
23.	the physical appearance or visible traits of an organismphenotype
24.	an organism that has two different alleles for a trait heterozygous hybrid
25.	the different forms a gene may have for a trait
26.	the allele that always "shows up" dominan+
27.	the allele that is masked when a dominant allele is present
28.	an organism that has two identical alleles for a trait
29.	condensed strands of DNA Chromosome
30.	instructions for the various heredity traits of an organism are found in its

Sood Skaps	Seed Color	Seed Coat Celer	Ped Shape	Pod Caler	Flower Position	Stem Length
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		(D.	The state of the s	Cause de la constant	030	3
Round	Yellow	Colored	Inflated	Green	Axial	Tall
ocessive	1.0.0	GENOTICA .		1 31001	1 700(8)	1 45%
				ومعدد		3
Wrinkled	Green	White	Constricted	Yellow	Terminal	Short

Write the symbols using the table above.					
Pure yellow seed-	Hybrid yellow seed-	Pure green seed- yy			
Pure green pod - 66	Hybrid green pod- <u>ba</u>	Pure yellow pod- 99			
Homozygous axial-	Heterozygous axial- Ha	Homozygous terminal- aa			
Homozygous tall-	Heterozygous tall- Tt	Homozygous short- <u>t</u>			

Record homozygous (ho) or heterozygous (he).

<u></u>	<u>he</u> Co	<u>ho</u> AA	<u>he</u> tt	Ne Gg
<u>he</u> Aa	ho gg	No TT	<u>he</u> Ii	<u>ho</u> rr

r wrinklad	Cc <u>Colored</u>
AA axial	tttt
ig green	
Record the possible genotypes given the p	**
Round Rl, Rr Wrinkled rr	Axial <u>AA, Aa</u> Green <u>G6, tag</u> OR 99 Yellow <u>YY, Yy OR 99</u> Colored <u>CC, Cc</u>
nflated II, Ii Short tt	Yellow YY, Yy OR 99 Colored CC, Cc
	U
ISE THE GENETICS CHART of Mende	el's pea plants!!! Label genotypes & phenotypes on e
rohlem	
(II) 4. A homozygous dominant inflated pod is	s crossed with a heterozygous pod,
I I	genotype phenotype
	genotype phenotype II inflated 1009. Ii
7 7 7	Ti
i [I 11	
	(-0)
5. A wrinkled seed shape is crossed with a	PRI pure round seed shape.
R R	genotype prenotype
r Pr Rr	Rr 100% round
r Rr Rr r Rr Rr	
\	
6. A pure yellow seed color is crossed with	(yy) n a pure green seed color.
\/ \/	
<u> </u>	genotype phenotype Yy 100% yellow
14 14 1	V 1009 willows

(Aa)
17. Cross two heterozygous axial flowers.

Aa	genotype	phenotype
A AA Aa	25% AA	75% Axial
a Aa aa	50%-Aa	25% terminal
	259, -aa	

18. Cross a homozygous green pod with a heterozygous green pod.

	6	/ 2	genotype	phenotype
•	66 6	6	50% 66	100% green
9	Gg Gg		50%, Gg	

19. Cross a terminal flower position with a heterozygous axial flower position.

