Name	Block	Date

Unit 7 Checklist – Mendelian Genetics

#	Question	Pre-Assessment	Lesson Exit Ticket
1	Identify the man who performed experiments with pea plants and discovered the " gene "		
2	Explain the relationship between an allele and a gene		
3	Explain the relationship between a genotype and a phenotype		
4	Contrast a homozygous genotype with a heterozygous genotype		
5	Contrast a recessive allele with a dominant allele		
	Brown fur (B) is dominant to white fur (b) in rabbits. Describe the phenotype of	1. BB	1. BB
6		2. Bb	2. Bb
	each given genotype	3. bb	3. bb
Id	Identify each genotype as homozygous dominant, homozygous recessive, or heterozygous	1. BB	1. BB
7		2. Bb	2. Bb
		3. bb	3. bb
8	A male rabbit has the genotype <u>Bb</u> for fur color. What percent of his offspring will receive his dominant allele? Explain.		
9	Based on this cross, what percent offspring will have <u>brown fur</u> ? What percent will be <u>heterozygous</u> ? What percent will be <u>homozygous</u> <u>recessive?</u>	1. Brown fur 2. Heterozygous 3. Homozygous recessive	1. Brown fur 2. Heterozygous 3. Homozygous recessive

#	Question	Pre-Assessment	Lesson Exit Ticket
10	Set up and complete a Punnett Square for the following cross: A homozygous dominant male (BB) is crossed with a homozygous recessive female (bb)		
11	The following dihybrid cross is between 2 round, yellow pea plants (RrYy x RrYy). Describe the ratio of phenotypes in the offspring. RY Ry rY ry RY RYY RRYY RrYY RrYY RY RRYY RrYY rrYy rrYy	Round (R) is dominant to wrinkled (r); Yellow (Y) is dominant to green (y) Round, yellow Round, green Wrinkled, yellow Wrinkled, green	Round (R) is dominant to wrinkled (r); Yellow (Y) is dominant to green (y) Round, yellow Round, green Wrinkled, yellow Wrinkled, green
12	<u>Define</u> a polygenic trait and describe an <u>example</u>		
13	Define incomplete dominance and describe an example		
14	<u>Define</u> a trait with multiple alleles and describe an <u>example</u>		
15	Define a sex-linked trait and describe an <u>example</u>		