8th Heredity/Genetics Study Guide	Name
1. Who is the Father of Genetics?	Period
2. What organism did he study, and what did he do to heredity?	observe and discover information about traits and
3. What three things did Gregor Mendel discover beca	nuse of his experiments?
4. List the traits he observed in plants?	
5. List and define the 3 ways that genetic variation oc	curs.
Use the following letters to answer question 1-5. (B & b)	
1. pure dominant genotype	
2. Pure recessive genotype	
3. hybrid genotype	
4. heterozygous gene pair	
5. homozygous gene pair	
6. Dominant allele	
/. recessive allele	
8. Use a punnett square to cross these one heterozygor parents: (use the letter E)	us parent with one homozygous recessive parent
9. When a pure dominant trait is crossed with a pure r all of the offspring? Dominant or recessive? Give a10. What type of genotype is necessary for a recessive	n example trait to appear?
11. What is a gene?12. Complete the missing information. Parent 1	D4 2
12. Complete the missing information. Parent 1	, Parent 2
b	
Bb	
bb	
14 Complete the number square tell the construe and	nhanatura for the offerning in narrounte and and
14. Complete the punnett square, tell the genotype and give the ratio for each	phenotype for the offspring in percentages and
give the ratio for each $R = \text{round } \& r = \text{wrinkled}$	Geno:
R – Tourid & T – Willikied	Geno:
R r	Pheno:
R	
r	

15. **Different forms** of a gene are called ______.
*Please remember to study all old notes, study guides, and handouts from previous units!