

Alleles, genotypes and phenotypes

EST

PAGES 362-369

Complete this concept review handout and keep it as a record of what you have learned.

Definitions

• An allele is
A homozygote is
A heterozygote is
A dominant allele is
• A recessive allele is
A genotype is
A phenotype is

Mendel's laws of heredity

Name :			
Description:			
Name:			
Description:			
·			

Name:			_ Group:	Date:
Rules for	describing ge	enotypes		
• Each all	ele is represented	d		
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Ctone in 1	making a Duni	nott equano		
	making a Puni			
•				
•				
•				
•				
	Parents	Round	Wrinkled)
		yellow seed	yellow seed	·
	Genotype	Rr Yy └^↑	rr Yy [L <u>↑</u> ↑	
	Possible gametes	(RY) (rY)	(rY) (rY)	
	Possible gametes	RY (rY) Ry (ry)		
	gametes	Ry ry	(ry (ry) (ry) (ry)	
		Ry ry	(rY) (rY)	
	gametes Punnett	Ry ry RY RrYY Round yellow Round yellow	ry ry ry ry ry RrYy Round yellow	
	gametes Punnett	Ry ry RY RrYY Round yellow Round yellow RY RrYY Round yellow Wrinkle yellow	ry ry ry ry ry ry ry ry RrYy Round yellow rrYy w Wrinkle yellow Wrinkle yellow	
	gametes Punnett	Ry ry RY RrYY Round yellow Round yellow RY rrYY rrYY	ry RrYy Round yellow rrYy w Wrinkle yellow Rryy Rryy Rryy Rryy Rryy Rryy Rryy Rry	