



# PUNNETT SQUARE TEMPLATE MAT

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

### 1. PARENTS

Parent 1 (e.g. mother):  
 \_\_\_\_\_  
 Genotype: \_\_\_\_\_  
 Gametes:  


Parent 2 (e.g. father):  
 \_\_\_\_\_  
 Genotype: \_\_\_\_\_  
 Gametes:  


### 2. PUNNETT SQUARE

PARENT 1 GAMETES

PARENT 2 GAMETES			

### 3. GENOTYPE RATIO

Count each genotype:

<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Total: \_\_\_\_\_

### 4. PHENOTYPE RATIO





List the phenotypes and count:

<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Total: \_\_\_\_\_

### 5. NOTES / WORKING

### 6. KEY / REMINDERS

-  Use a capital letter for the dominant allele.
-  Use a lower-case letter for the recessive allele.
-  Each parent contributes one allele to the offspring.
-  Fill in the square by combining the alleles from the row and column.

**EXAMPLE (Bb × Bb)**

	B	b
B	BB	Bb
b	Bb	bb

Genotype ratio: 1 BB : 2 Bb : 1 bb  
 Phenotype ratio: 3 Dominant : 1 Recessive

<b>KEY VOCABULARY</b>	<p><b>Allele:</b> An alternative form of a gene.</p> <p><b>Dominant:</b> An allele that is expressed in the phenotype.</p>	<p><b>Recessive:</b> An allele that is masked by a dominant allele.</p> <p><b>Genotype:</b> The genetic makeup (alleles).</p>	<p><b>Phenotype:</b> The observable characteristic.</p> <p><b>Gamete:</b> A sex cell containing one allele for each gene.</p>
-----------------------	--	---	---