

# **Chicken Farmer's Reference Sheet**

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**Life Science (Lower Middle)**  
**Unit 2**

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## Chicken Farmer's Reference Sheet

### For each breeding pair:

1. Record the genotype of each chicken you are breeding in your Lab Notebook.
2. On scrap paper, complete a Punnett Square to determine the possible genotypes of each offspring.
3. Roll a die to determine the genotype of each offspring using the following table. Create **four** offspring per breeding pair. Record their genotypes in your Lab Notebook.

Roll	1	2	3	4	5	6
Genotype from Punnett Square	Re-roll	Re-roll	Top left	Top right	Bottom left	Bottom right

4. Compare each genotype to the tables below to determine the fully grown weight of each offspring.

Genotype	CC	Cc	cc
Size of Offspring	Large - 7 lb	Medium - 5 lb	Small - 3 lb

Note: All parent chickens from this round are now "retired" and cannot be sold or bred again.

5. Determine the ten offspring you will keep to breed again and which you will sell. Record this information using the instructions in your Lab Notebook. (For simplicity, we will not worry about the biological sex of the offspring.)
6. Calculate profit from sales. (Profit for all Chickens is \$2.00 per pound.) Record this in your Lab Notebook.
7. Restart at #1 to begin the next round. Continue until you have bred four generations.