

## Mouse Genetics Recording Sheet

1. Go to <http://www.explorellearning.com>. Enter the Mouse Genetics Gizmo and click on Simple Mousehouse.
2. Use the following guidelines to set up your Mouse Generations:
  - First Generation- Breed two “Potential Parents”
  - Second Generation- Breed two First Generation Offspring
  - Third Generation- Breed two Second Generation Offspring
3. Conduct the simulation for all 3 generations with Black/Black Potential Parents. Place tally marks in the table to keep track of the number of offspring.
4. Repeat this process for all color combinations of Potential Parents.

| <b>First Generation</b>  |                      |                      |                      |
|--------------------------|----------------------|----------------------|----------------------|
|                          | Parents- Black/Black | Parents- Black/White | Parents- White/White |
| Black Offspring          |                      |                      |                      |
| White Offspring          |                      |                      |                      |
| <b>Second Generation</b> |                      |                      |                      |
|                          | Parents- /           | Parents- /           | Parents- /           |
| Black Offspring          |                      |                      |                      |
| White Offspring          |                      |                      |                      |
| <b>Third Generation</b>  |                      |                      |                      |
|                          | Parents- /           | Parents- /           | Parents- /           |
| Black Offspring          |                      |                      |                      |
| White Offspring          |                      |                      |                      |

Explain what you discovered. (Include a summary of your numeric results, especially anything that was surprising to you.)

What color coat seems to be dominant? Why do you think so?