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Date: _____

Student Exploration: Mouse Genetics (One Trait AND Two Traits)

Vocabulary: allele, DNA, dominant allele, gene, genotype, heredity, heterozygous, homozygous, hybrid, inheritance, phenotype, Punnett square, recessive allele, trait

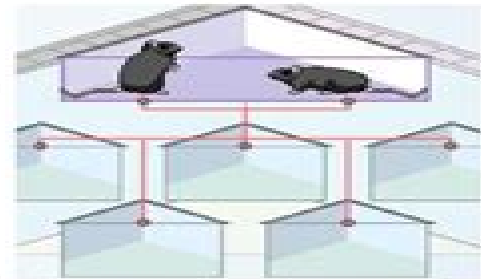
Gizmo Warm-up

Heredity is the passage of genetic information from parents to offspring. The rules of **inheritance** were discovered in the 19th century by Gregor Mendel. With the *Mouse Genetics (One Trait)* Gizmo™, you will study how one **trait**, or feature, is inherited.

1. Drag two black mice into the **Parent 1** and **Parent 2** boxes. Click **Breed** several times. What do the offspring look like?

[All of the offspring will have black fur.]

The appearance of each mouse is also called its **phenotype**.



2. Click **Clear**, and drag two white mice into the parent boxes. Click **Breed** several times. What is the phenotype of the offspring now? [All offspring are white furred.]

3. Do you think mouse offspring will always look like their parents? [Yes. But it will different ways the offspring will very from the parent.]

Explain: [For example if your mom has sharp ears and your dad has flat ears, you could get a mixture of both types of ears.]

Activity A:
Patterns of
inheritance

Get the Gizmo ready:

- Click **Clear**.
- Drag a black mouse and a white mouse into the parent boxes, but don't click **Breed** yet.



Question: What patterns are shown by offspring traits?

Mouse Genetics Two Traits Gizmo Answer Key

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Mouse Genetics Two Traits Gizmo Answer Key:

The Mouse in Animal Genetics and Breeding Research Eugene J. Eisen, 2005 The sequencing of the mouse genome has placed the mouse front and center as the most important mammalian genetics model However no recent volume has detailed the genetic contributions the mouse has made across the spectrum of the life sciences this book aims to fill that vacuum Mouse genetics research has made enormous contributions to the understanding of basic genetics human genetics and livestock genetics and breeding The wide ranging topics in the book include the mouse genome sequencing effort molecular dissection of quantitative traits embryo biotechnology ENU mutagenesis and genetics of disease resistance and have been written by experts in their respective fields Chapter 1 The Beginnings Ode To A Wee Mouse 58 KB **Mouse Genetics** Lee M. Silver, 1995 *Mouse Genetics and Transgenics* , 1999-12-09 A unique book that integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience from those new to the field to experts who want an update on the state of the art Mouse Genetics and Transgenics covers all aspects of using the mouse as a genetic model organism care archiving stocks as frozen embryos or sperm making new mutations by chemical mutagenesis transgenesis and gene targetting mapping mutations and polygenic traits by cytogenetic genetic and physical means and disseminating and researching information via the Internet Mouse Genetics and Transgenics Ian J. Jackson, Catherine M. Abbott, 2000 This unique book integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience from those new to the field to experts who want an update on the state of the art Mouse Genetics and Transgenics A Practical Approach covers all aspects of using the mouse as a genetic model organism care and husbandry archiving stocks as frozen embryos or sperm making new mutations by chemical mutagenesis transgenesis gene targeting mapping mutations and polygenic traits by cytogenetic genetic and physical means and disseminating and researching information via the Internet Mouse Genetics After the Mouse Genome , 2004

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