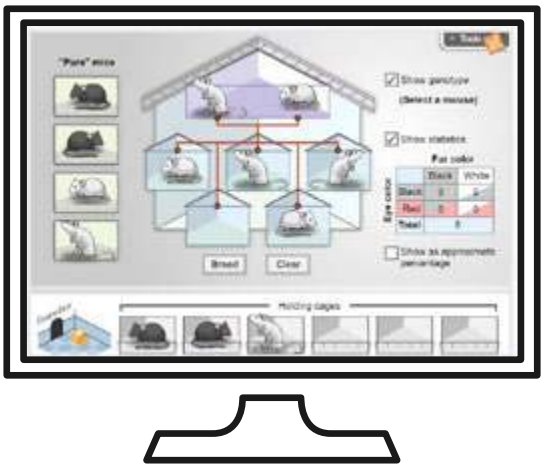
What are Science Gizmos?

ExploreLearning Science Gizmos are award-winning, interactive simulations that bring research-proven instructional strategies to life and make learning fun. Students use Gizmos to interact with and explore hundreds of science topics, ranging from ecosystems to electrical circuitry. And with alignments to the latest standards, it's easy to get students ready for success.

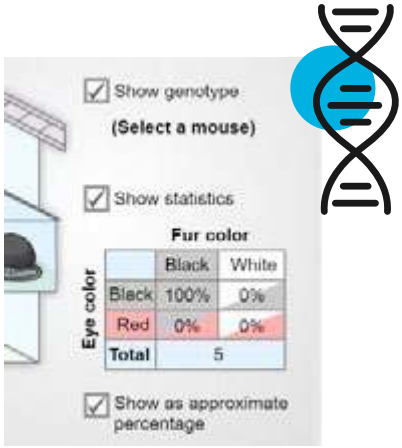
In the **Mouse Genetics (Two Traits) Gizmo** you'll breed "pure" mice with known genotypes that exhibit specific fur and eye colors, and learn how traits are passed on via dominant and recessive genes. Mice can be stored in cages for future breeding, and the statistics of fur and eye color are reported every time a pair of mice breed. Learn about genotypes, probability, and statistics.

Play, explore, and experience the "ah-ha!" moment with Gizmos:



Discover concepts

Interactive controls allow you to set up and run your simulation. Hit **Breed** to see the results or **Clear** to try something different. You're in control.



Analyze data

Visualizations, screenshots, and graphing tools help you easily capture and compare results from experiments.

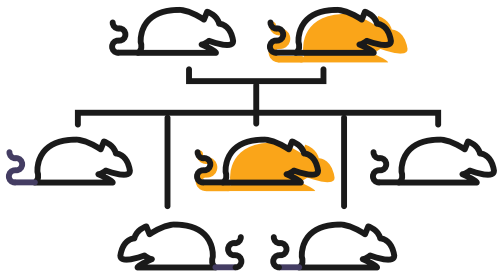
3. The table below describes 100 offspring of the same two parents. What are the most likely genotypes of the parents?

Eye color \ Fur color	Black	White
Black	22	27
Red	25	26
Total	100	

A. *Ff Ee* and *ff ee*
B. *ff Ee* and *ff ee*
C. *Ff Ee* and *Ff Ee*
D. *FF EE* and *ff ee*

Go deeper

Inquiry-based lesson plans, customizable activities, and assessment questions create more moments to explore, discover, and apply new concepts.



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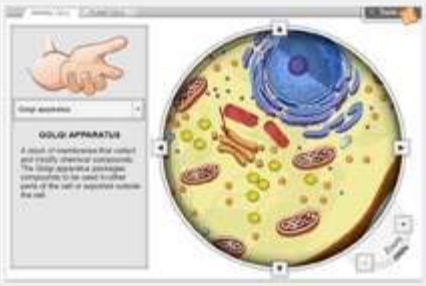
Gizmos

Support the latest standards and assessments with hundreds of science topics for grades 3-12



3D Eclipse
Air Track
Ants on a Slant (Inclined Plane)
Average Atomic Mass
Balancing Chemical Equations
Boyle's Law and Charles' Law
Building DNA
Building Pangaea
Carbon Cycle
Cell Division
Cell Structure
Chemical Changes
Chemical Equations
Chicken Genetics
Circuit Builder
Circulatory System
Cladograms
Coastal Winds and Clouds
Collision Theory
Color Absorption
Comparing Climates
Conduction and Convection
Coral Reefs
Covalent Bonds
Density
Density Laboratory
Dichotomous Keys
Diffusion
Digestive System
Disease Spread
Doppler Shift
Earthquakes
Eclipse
Effect of Environment on New Life Form
Electron Configuration
Element Builder
Energy Conversions
Evolution
Fan Cart Physics
Feel the Heat
Flower Pollination
Food Chain
Force and Fan Carts
Forest Ecosystem
Free Fall Tower
Genetic Engineering
Germination
Graphing Skills
Gravity Pitch
Greenhouse Effect
Growing Plants
Half-life
Heat Absorption
Heat Transfer by Conduction
Household Energy Usage
H-R Diagram
Human Homeostasis
Human Karyotyping

Hurricane Motion
Identifying Nutrients
Inheritance
Isotopes
Levers
Magnetism
Measuring Motion
Measuring Volume
Meiosis
Mineral Identification
Natural Selection
Observing Weather
Ocean Tides
Osmosis
Pattern Finder
Periodic Trends
pH Analysis
Phase Changes
Phases of the Moon
Phases of Water
Photosynthesis Lab
Plants and Snails
Plate Tectonics
Pollination: Flower to Fruit
Pond Ecosystem
Prairie Ecosystem
Rabbit Population by Season
Rainfall and Bird Beaks
River Erosion
RNA and Protein Synthesis
Rock Classification
Rock Cycle
Roller Coaster Physics
Seasons in 3D
Seasons: Earth, Moon, and Sun
Senses
Sled Wars
Solar System
Solubility and Temperature
Star Spectra
Tides
Trebuchet
Triple Beam Balance
Unit Conversions
Water Cycle
Water Pollution
Waves
Weather Maps
Weathering
Weight and Mass

... And hundreds more!

STEM Cases include:

Animal Group Behavior
Water Crisis: Stoichiometry
Heredity and Traits
Nitrogen Cycle
Evolution