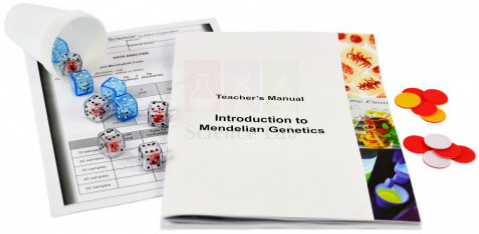
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Genes & Probability Lab

Product Code :

SLE/EB/14



Science Lab
Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Genes & Probability Lab teaches inheritance through simulated, game-like crosses, so students watch Mendel's ratios emerge from chance instead of copying them from a table. Working with easily observed and tested traits, they model gametogenesis and fertilisation, run monohybrid and dihybrid crosses, and test the laws ofdominance and segregation, along with recombination and independent assortment.

Genetics probability activity details

Parameter	Detail
Type	Genetics and probability lab activity
Format	Game-like exercises
Traits studied	Easily observed and tested traits
Processes modelled	Gametogenesis and fertilisation
Crosses	Monohybrid and dihybrid
Principles covered	Dominance, segregation and independent assortment, plus recombination
Suitable for	School and college genetics lessons
Product code	SLE/EB/14
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Supplied by	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Running chance-based genetics crosses

Monohybrid cross by chance. Two students each play a parent that is heterozygous for one trait and pick one allele at random for every gamete, as the exercise directs. Joining two gametes gives one offspring genotype. After a run of offspring, each pair tallies genotypes and phenotypes and compares them with the ratio its Punnett square predicts.

Dihybrid cross and independent assortment. Next the pair follows two genes at once, choosing one allele of each gene for every gamete. Sorting the offspring into four phenotype classes shows whether the two traits passed down separately. Students check their reasoning against the Mendelian inheritance wall chart, then repeat a cross with the printed plastic fly pieces of the fruit fly genetics kit.

Pooling the class data. Every pair writes its totals on the board and the class adds them together. Group samples often stray from the expected ratio, while the pooled total
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