

## QUANTITATIVE GENETICS

Title Coefficient of inbreeding – Full-sib MatingPurpose:

Help students learn how to calculate the coefficient of inbreeding under Full-sib mating

Goal:

Apply the concepts of identity by descent to determine coefficients of inbreeding and kinship in a regular system of inbreeding.

Keywords:

Coefficient of Kinship, Coefficient of Inbreeding, Regular Systems of Plant Breeding

Activity:

1. Diagram a pedigree for four generations of full sib mating after crossing two unrelated individuals.
2. Determine the coefficients of inbreeding and relationships for all members of the pedigree.