

Standard 2

2A	Students know meiosis is an early step in sexual reproduction in which the pairs of chromosomes separate and segregate randomly during cell division to produce gametes containing one chromosome of each type.
2B	Students know only certain cells in a multicellular organism undergo meiosis
2C	Students know how random chromosome segregation explains the probability that a particular allele will be in a gamete.
2D	Students know new combinations of alleles may be generated in a zygote through the fusion of male and female gametes (fertilization)
2E	Students know why approximately half of an individual's DNA sequence comes from each parent
2F	Students know the role of chromosomes in determining an individual's sex.
2G	Students know how to predict possible combinations of alleles in a zygote from the genetic make-up of the parents