



Minnesota State Life Science standards addressed by Zoo Matchmaker:

Grade 7:

7.I.A.1. The student will recognize how scientific knowledge is subject to change as new evidence becomes available, or as new theories cause scientists to look at old observations differently.

7.I.A.2. The student will explain natural phenomena by using appropriate physical, conceptual, and mathematical models.

7.IV.C.1. Students will provide examples of the potentially irreversible effects of human activity on ecosystems.

7.IV.D.1. The students will recognize that inherited traits result from the information contained on genes, which are located on chromosomes of each cell.

7.IV.D.2. The student will recognize that each gene carries a single unit of information and can influence more than one trait.

7.IV.D.3. The student will explain how inherited traits can be determined by one or many genes.

7.IV.D. 5. The student will comprehend that reproduction is essential for the continuation of a species.

7.IV.E. 1. The student will recognize that extinction is a common event.

7.IV. E. 3. The student will explain how biological adaptations in structure, function, and behavior enhance the reproductive success and survival of a species in a particular environment.

7.IV. E. 5. The student will explain how diversity of species develop through gradual processes over generations.



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Grades 9-12:

9-12.IV.D.1. The student will explain that the instructions for the characteristics of all organisms are carried in nucleic acids.

9-12.IV.D.2. The student will define the relationship between DNA, genes and chromosomes.

9-12.IV.D.6. The student will use Mendel's laws of segregation and independent assortment to determine the genotype and phenotype of a monohybrid cross.

9-12.IV.D.7. The student will differentiate between dominant, recessive, co-dominant, incompletely dominant, polygenic and sex-linked traits.

9-12.IV.E.1. The student will understand that species change over time and the term biological evolution is used to describe this process.

9-12.IV.E.2. The student will use the principles of natural selection to explain the differential survival of groups of organisms....

9-12.IV.E.3. The student will describe how genetic variation between populations is due to different selective pressures acting on each population, which can lead to a new species.