



A PILOT DVD PROJECT

MODELING MEIOSIS

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Lesson Plan Title: Modeling Meiosis
HHMI Lectures: The Meaning of Sex, Genes and Gender (November 2001)
Courses: Biology, AP Biology, Anatomy and Physiology
Goals: To develop an understanding of the meiotic process.
National Science Education Standards: National Committee on Science Education Standards and Assessment, National Research Council 1996. Reproduction is a characteristic of all living systems; because no individual organism lives forever, reproduction is essential to the continuation of every species. Some organisms reproduce asexually. Other organisms reproduce sexually. P. 157 In many species, including humans, females produce eggs and males produce sperm. The egg and sperm unite to begin development of a new individual. The new individual receives genetic information from its mother (via the egg) and its father (via the sperm). Sexually produced offspring never are identical to either of their parents. P. 157
Objectives: Student will enhance their understanding of the meiotic process by creating a model of the process from its beginning to completion.