

Reproduction Study Guide

Topics: Male and female reproductive anatomy and functions, menstrual cycle, fertilization, embryo development, asexual and sexual reproduction, mitosis, meiosis

Vocabulary:

Fertilization- process of sperm meeting the egg

Testes- Male reproductive organ that holds sperm and creates male hormones (testosterone)

Ovary- female reproductive organ that stores eggs and creates female hormones (estrogen + progesterone)

Estrogen- The female hormone produced in the ovaries that results in a change in the female appearance (Ex: breast development, body form change, body hair)

Testosterone- The male hormone produced in the testes that results in a change in the male appearance (Ex: deep voice, body hair, change in body form)

Uterus- Female organ that holds babies (shaped like an upside down pear)

Fallopian Tube- Female organ in which sperm and egg have to meet to create a Zygote.
(Located on each side of the uterus)

Sperm- the male sex cell that is found in the testes that are used for reproduction.

Egg- The female sex cell

Ovulation- The release of an egg during the menstrual cycle.

Menstrual cycle- An egg develops and is released from an ovary

Placenta - embryo's (baby) organ of respiration, nourishment, and excretion.

Fetus- an unborn offspring

Embryo- A more developed zygote

Development- When something changes over time (whether that shape, size, color, etc)

Differentiation- cells turn into specialized cells over time such as nerve and muscle cells.

Sexual reproduction- two cells from different parents unite to produce the first cell of the new organism (sperm + egg)

Asexual reproduction- Process by which a parent produces by itself (offspring is an EXACT copy)

Zygote- a cell formed by the union of two sex cells (ex: the result of fertilization) and is now capable of undergoing cell division to form a new individual.

Gamete- sex cells (Ex: sperm and egg)

Diploid- Cells having two sets of chromosomes.

Haploid- A cell containing only one set of chromosomes.

Mitosis- How body cells divide (identical, they create 2 daughter cells)

Meiosis- produces 4 genetically unique daughter cells (different) haploid cells (Ex: sex cells are formed)

Chromosomes- long DNA molecule with the genetic material of an organism

Male reproductive organs VISUAL:	Female reproductive organs VISUAL:
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Grade 9 Science Reproduction Study Guide

Clemens Wendtner



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Science Curriculum Topic Study Page Keeley, 2005-02-23 Without question this book will be of great value to the profession of science teaching. Given today's educational landscape of standards and high stakes testing, curriculum topic study is an essential piece of the puzzle. Cary Sneider, Vice President for Educator Programs, Museum of Science, Boston, Discover the missing link between science standards, teacher practice, and improved student achievement. Becoming an accomplished science teacher not only requires a thorough understanding of science content but also a familiarity with science standards and research on student learning. However, a comprehensive strategy for translating standards and research into instructional practice has been lacking since the advent of standards-based education reform. Science Curriculum Topic Study provides a systematic professional development strategy that links science standards and research to curriculum instruction and assessment. Developed by author Page Keeley of the Maine Mathematics and Science Alliance, the Curriculum Topic Study CTS process can help teachers align curriculum instruction and assessment with specific research-based ideas and skills. The CTS process will help teachers improve their understanding of science content, clarify a hierarchy of content and skills in a learning goal from state or local standards, define formative and summative assessment goals and strategies, learn to recognize and address learning difficulties, increase opportunities for students of all backgrounds to achieve science literacy, design or utilize instructional materials effectively. Containing 147 separate curriculum topic study guides arranged in eleven categories that represent the major domains of science, this book provides the tools to both positively impact student learning and develop the knowledge and skills that distinguish expert science teachers from novices.

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