

Author	Clara Short and Susan DeVries
Lesson Title	Endocrine System
Grade Level	11-12
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Objectives	1. Apply inquiry-based and problem-solving processes and skills to scientific investigations – Use current technologies, such as CD-ROM, DVD, Internet, and on-line data search to explore current research related to a specific topic (DOK 3) – Collect, analyze, and draw conclusions from data to create a formal presentation using available technology (e.g., computers, calculators, Smartboard, CBL's, etc.) (DOK 3) 2. Demonstrate an understanding of the structure, functions, and relationships of the body systems. – Distinguish the location, structure, and functions of the endocrine glands (DOK 1) a. Major endocrine glands b. Function of each endocrine gland and the various hormones they generate by each c. Negative feedback mechanisms that regulate hormonal secretions – Research common disorders or diseases of the endocrine system and assess the unique problems associated with diagnoses and treatments (DOK 3)
What should the students know as a result of this lesson?	The student will understand: structure and function of major hormones, relative locations of major endocrine glands within the human body, the importance of hormones for maintaining homeostasis, how to calculate heart rate, and diseases/disorders associated with the endocrine system.
What should students be able to do as a result of this lesson?	The student should be able to: identify major endocrine glands within the body, describe relationships between hormones and homeostasis, perform calculations to determine heart rate, use appropriate microscope techniques, conduct research with multiple resources (e.g., Internet, reference books, etc.).
Materials Needed	Live <i>Daphnia</i> culture, beakers, distilled water, adrenaline solution, digital timer, cotton, microscope, lens paper, microscope slides (depression), disposable pipettes, paper towels, surgical gloves, lab report, textbooks, library access, Internet, computers

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