

**CORRELATION TO FLORIDA'S SCIENCE EDUCATION CURRICULUM FRAMEWORK– BIOLOGY I**  
**SUBMISSION TITLE: *BIOLOGY: A COMMUNITY CONTEXT*, LEONARD & PENICK, © 1998 (053865208X)**

OBJECTIVES	PAGES WHERE TAUGHT	I/M*
<b>B. Intended outcomes.</b> After successfully completing this course, the student will:		
1. Use the scientific method to solve problems, employ metric measurements, and demonstrate safe and effective use of laboratory instruments.	27-31, 78-see Guided Inquiry 2.1, 106-see Guided Inquiry 2.6, 120-see Extended Inquiry 2.2, 143-see Guided Inquiry 3.1, 176-see Guided Inquiry 3.6, 202-see Guided Inquiry 4.1, 211-see Guided Inquiry 4.2, 225-see Guided Inquiry 4.4, 228-see Guided Inquiry 4.5, 232-see Guided Inquiry 4.6, 255-see Extended Inquiry 4.2, 257-see Extended Inquiry 4.3, 260-see Extended Inquiry 4.4, 262-see Extended Inquiry 4.5, 326-see Guided Inquiry 5.6, 386-see Guided Inquiry 6.5, 443-see Guided Inquiry 7.3, 506-see Guided Inquiry 8.4, 511-see Extended Inquiries 8.1 and 8.2, 534-537, 544-546	I
2. Identify cell organelles and relate their function to structure.	202-216	I
3. Describe the phases of mitosis and meiosis.	292-297, 299-306, 307-see last paragraph	I
4. Describe genetics concepts, including the use of Punnett square crosses.	284-285, 288-see boxed information, 309-see boxed information, 310-326, 337-see boxed information, 338-340, 342, 343-see Extended Inquiry 5.1	I
5. Discuss biological change through time.	27-see list under "Living or Nonliving?", 380-381, 428-see Part B of Guided inquiry 7.1, 430-433, 434-see Figure 7.9, 456-459, 462-see Guided Inquiry 7.5, 466-see Guided Inquiry 7.6	I
6. Demonstrate knowledge of the classification system and use of the taxonomic key.	434-442, 471-see Extended Inquiry 7.1	I
7. Differentiate among structures and functions of viruses, monerans, and protists.	210-211, 246-247, 438, 442-447, 539	I
8. Compare nonvascular and vascular plants.	434-see Guided Inquiry 7.2, 438, 442-see Figure 7.17, 450	M
9. Compare invertebrate and vertebrate animals.	112-see Guided Inquiry 2.7, 434-see Guided Inquiry 7.2, 438, 448-450, 466-see table under Procedure, 471-see Extended Inquiry 7.1, 539-541	I
10. Identify and describe the major human systems.	218-220, 224-225, 231-241, 244-247, 255-see Extended Inquiry 4.2, 304-309, 373-375, 389-392, 396-398	I

\*I = In-depth coverage of topic; M = Topic is mentioned

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11. Describe the relationships among individuals, populations, communities, and ecosystems.	43, 90-93, 99-111, 157-160, 162-175, 452, 459-see Biothought, 472-see Extended Inquiry 7.2, 473-see Extended Inquiry 7.3, 492-see Guided Inquiry 8.1, 502-see Guided Inquiry 8.3, 504-505, 520-521	I
12. Describe how biology interacts with technology and society.	5-21, 24-see Guided Inquiry 1.3, 56-61, 72-81, 90, 104-105, 126-127, 130-see Extended Inquiry 2.8, 140-141, 156, 169-see Bioprediction, 174-175, 217-218, 242, 272-276, 282-289, 298, 309-316, 318, 321, 324-326, 337-340, 344-346, 347-356, 358-361, 366-367, 372, 376-378, 401, 416-420, 426-427, 452, 465-468, 472-485, 490-498, 501, 504-506, 508, 511-518, 522-525	I

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