



CORRELATION CURRICULUM FRAMEWORKS

COURSE TITLE: Advanced Placement Biology

COURSE NUMBER: 2000340

SUBMISSION TITLE: Biology, 8th edition by Mader © 2004

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INTENDED OUTCOMES (Number and outcome)	PAGES(S) OR LOCATIONS(S) WHERE TAUGHT	I/M*
1. Use the scientific method to solve problems, employ metric measurements, and determine safe and effective use of laboratory instruments.	p. 10-17, 953	I
2. Analyze the chemical composition of organisms.	p. 35-56	I
3. Describe in detail cell infrastructure and function of cellular organelles.	p. 57-100	I
4. Assess the role of enzymes in life processes.	p. 106-111	I
5. Trace the biochemical pathways involved in respiration and photosynthesis.	p. 115-148	I
6. Describe the processes of cell division.	p. 149-178	I
7. Describe the principles of genetics.	p. 181-279	I
8. Apply knowledge of structure and the function in plants and animals to their reproduction and development.	p. 437-515, 517-576	I
9. Identify the experimental evidence for the modern theories of the origin of life.	p. 319-340	I

10. Describe the changes in organisms through time.	p. 281-318	I
11. Demonstrate knowledge of the principles of ecology and the role of energy flow, biogeochemical cycles, population growth and regulation, communities, habitats and niches.	p. 46-49, 835-924	I
12. Distinguish between stereotyped and learned behavior and list the factors of social behavior.	p. 817-834	I
13. Describe the implication of man's social biology on his environment and quality of life.	p. 925-944	I
14. Analyze how biology interacts with technology and society.	p. 17, 34, 56, 114, 130, 147, 166, 180, 222, 236, 266, 279, 300, 340, 359, 378, 436, 492, 593, 610, 630, 652, 682, 696, 718, 734, 752, 772, 815, 834, 856, 924, 943	M

I = Taught In Depth

M = Mentioned Only