



Biology 12

Specifically developed for the Biology, Grade 12,
University Preparation (SBI4U) Curriculum

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Program Goals

1 To ensure a thorough and comprehensible treatment of all content and process expectations in the SBI4U curriculum

- Complex biological concepts are presented in a clear, understandable fashion
- Important concepts, such as immunology and basal metabolic rate, are treated in greater depth than specified in the curriculum

2 To equip students with the independent learning, problem solving and research skills essential for success in post-secondary studies

- Self-contained and self-explanatory lessons
- A variety of self-evaluation and self-checking strategies
- A mature design similar to what students will experience with first year university/college texts
- The placement of lab activities at the end of chapters parallels the formal separation of theory and labs in university courses
- Extension and web link strategies provide opportunities to hone individual research and study skills

3 To acknowledge the science background and level of preparation of students entering this new course

- A thorough review of basic chemistry skills in Chapter 1
- A wealth of diagnostic activities
- Regular practice, assessment, and remediation opportunities
- The Math Skills section in the appendices reviews key algebra and graphing skills required for the Population Dynamics unit

4 To support busy teachers with the implementation and administration of this new curriculum

- Student lessons accommodate independent learning
- A comprehensive array of planning and assessment tools reduce lesson preparation time
- Access to a variety of different instructional approaches