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Factual and conceptual information dealing with the biology of human populations is offered in this guide for secondary science teachers. Instructional approaches are reviewed and suggestions are offered for use of the problem method approach, the discussion technique, and the project option. Information is organized into an introduction and five parts. The introduction described adaptation possibilities and highlights basic ecological concepts and principles. The five parts focus on: (1) evolution of human populations (addressing the topics of genetics and evolution); (2) environment of human populations (synthesizing information on energy, atmosphere, water, soils, biota, oceans, nutrition, diseases, and mineral resources); (3) dynamics of human populations (identifying demographic parameters and population patterns); (4) reproduction in human populations (containing materials on human reproduction and sexual behavior); and (5) design for survival (discussing ecosystem management and control of environmental quality, fertility regulation, and humanity's future). Lists of reference readings are included after each of the parts. (ML)

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This is a re-publication of Katherine B. Shippen's 1955 book, which is a history of the study of biology, from Aristotle to Thomas Hunt Morgan. Each chapter is about a different scientist or theory. The book is aimed at middle school science students.

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Thirty years ago, biologists could get by with a rudimentary grasp of mathematics and modeling. Not so today. In seeking to answer fundamental questions about how biological systems function and change over time, the modern biologist is as likely to rely on sophisticated mathematical and computer-based models as traditional fieldwork. In this book, Sarah Otto and Troy Day provide biology students with the tools necessary to both interpret models and to build their own. The book starts at an elementary level of mathematical modeling, assuming that the reader has had high school mathematics and first-year calculus. Otto and Day then gradually build in depth and complexity, from classic models in ecology and evolution to more intricate class-structured and probabilistic models. The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory. Through examples, they describe how models have been used to understand such topics as the spread of HIV, chaos, the age structure of a country, speciation, and extinction. Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves. This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists. A how-to guide for developing new mathematical models in biology Provides step-by-step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available

A fantastic aid for coursework, homework, and test revision, this is the ultimate study guide to biology. From reproduction to respiration and from enzymes to ecosystems, every topic is fully illustrated to support the information, make the facts clear, and bring biology to life. For key ideas, "How it works" and "Look closer" boxes explain the theory with the help of simple graphics. And for revision, a handy "Key facts" box provides a summary you can check back on later. With clear, concise coverage of all the core biology topics, SuperSimple Biology is the perfect accessible guide for students, supporting classwork, and making studying for exams the easiest it's ever been.

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