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Nota di contenuto	Front Cover; CONTENTS; PREFACE; ACKNOWLEDGMENTS; ABOUT THE AUTHORS; INTRODUCTION; SECTION 1 - Using Argument-Driven Inquiry; Ch 1 - Argument-Driven Inquiry; Ch 2 - Lab Investigations; SECTION 2 - Life Sciences Core Idea 1: From Molecules to Organisms: Structures and Processes; Lab 1. Osmosis and Diffusion: Why Do Red Blood Cells Appear Bigger After Being Exposed to Distilled Water?; Lab 2. Cell Structure: How Should the Unknown Microscopic Organism Be Classified?; Lab 3. Cell Cycle: Do Plant and Animal Cells Spend the Same Proportion of Time in Each Stage of the Cell Cycle? Lab 4. Normal and Abnormal Cell Division: Which of These Patients Could Have Cancer?Lab 5. Photosynthesis: Why Do Temperature and Light Intensity Affect the Rate of Photosynthesis in Plants?; Lab 6. Cellular Respiration: How Does the Type of Food Source Affect the Rate of Cellular Respiration in Yeast?; Lab 7. Transpiration: How Does Leaf Surface Area Affect the Movement of Water Through a Plant?; Lab 8. Enzymes: How Do Changes in Temperature and pH Levels Affect Enzyme Activity?; SECTION 3 - Life Sciences Core Idea 2: Ecosystems: Interactions, Energy, and Dynamics Lab 9. Population Growth: How Do Changes in the Amount and Nature of the Plant Life Available in an Ecosystem Influence Herbivore Population Growth Over Time?Lab 10. Predator-Prey Population Size Relationships: Which Factors Affect the Stability of a Predator-Prey

Population Size Relationship?; Lab 11. Ecosystems and Biodiversity: How Does Food Web Complexity Affect the Biodiversity of an Ecosystem?; Lab 12. Explanations for Animal Behavior: Why Do Great White Sharks Travel Over Long Distances?
Lab 13. Environmental Influences on Animal Behavior: How Has Climate Change Affected Bird Migration?Lab 14. Interdependence of Organisms: Why Is the Sport Fish Population of Lake Grace Decreasing in Size?; Lab 15. Competition for Resources: How Has the Spread of the Eurasian Collared-Dove Affected Different Populations of Native Bird Species?;
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Lab 17. Chromosomes and Karyotypes: How Do Two Physically Healthy Parents Produce One Child With Down Syndrome and a Second Child With Cri Du Chat Syndrome?Lab 18. DNA Structure: What Is the Structure of DNA?; Lab 19. Meiosis: How Does the Process of Meiosis Reduce the Number of Chromosomes in Reproductive Cells?; Lab 20. Inheritance of Blood Type: Are All of Mr. Johnson's Children His Biological Offspring?; Lab 21. Models of Inheritance: Which Model of Inheritance Best Explains How a Specific Trait Is Inherited in Fruit Flies?
SECTION 5 - Life Sciences Core Idea 4: Biological Evolution: Unity and Diversity

Sommario/riassunto

Are you interested in using argument-driven inquiry for high school lab instruction but just aren't sure how to do it? You aren't alone. This book will provide you with both the information and instructional materials you need to start using this method right away. Argument-Driven Inquiry in Biology is a one-stop source of expertise, advice, and investigations. Because the authors are veteran teachers, they designed Argument-Driven Inquiry in Biology to be easy to use and aligned with today's standards. The labs include reproducible student pages and teacher notes. The investigations will help
