

# Activity Preview

**Ecosystem Inquiry Activity**

**Objectives**

- 1. To understand the components of an ecosystem and the interactions between them.
- 2. To identify the abiotic and biotic factors in an ecosystem.
- 3. To understand the flow of energy and matter in an ecosystem.
- 4. To understand the role of decomposers in an ecosystem.

**Materials**

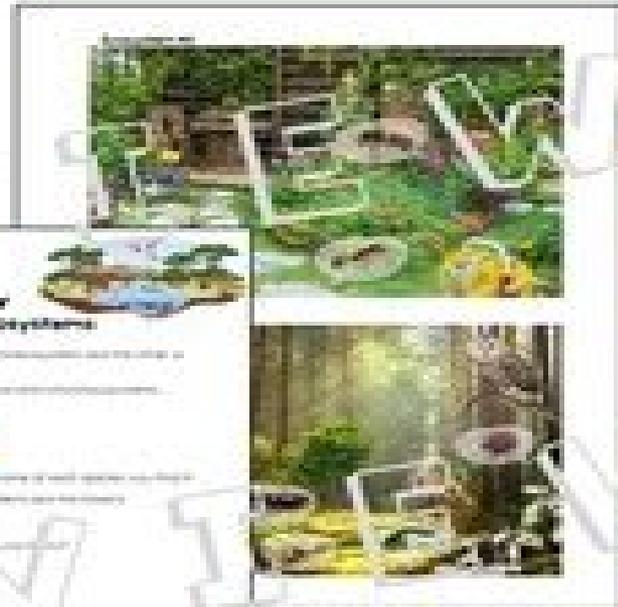
- 1. A clear plastic container (e.g., a 2-liter bottle with the top removed)
- 2. A small amount of soil
- 3. A small amount of water
- 4. A small amount of grass or other green plants
- 5. A small amount of small insects (e.g., fruit flies)

**Procedure**

1. Place the soil, water, and plants in the container.
2. Seal the container with a lid.
3. Place the container in a warm, sunny location.
4. Observe the container over time and record your observations.

**Analysis and Conclusions**

1. Describe the changes you observed in the container over time.
2. Identify the abiotic and biotic factors in the container.
3. Explain the interactions between the abiotic and biotic factors.



**Inquiry Activity**  
**Natural vs. Artificial Ecosystems**

Read the article on the next page. Discuss and answer the questions in the worksheet.

**Objectives**

- 1. To understand the differences between natural and artificial ecosystems.
- 2. To identify the abiotic and biotic factors in both types of ecosystems.
- 3. To understand the interactions between the abiotic and biotic factors.

**Materials**

- 1. A natural ecosystem (e.g., a forest or a pond)
- 2. An artificial ecosystem (e.g., a terrarium or a hydroponic system)

**Procedure**

1. Observe the natural ecosystem and the artificial ecosystem.
2. Identify the abiotic and biotic factors in both ecosystems.
3. Compare the interactions between the abiotic and biotic factors in the two ecosystems.

**Analysis and Conclusions**

1. Describe the differences between the natural and artificial ecosystems.
2. Explain the reasons for these differences.



# Inquiry Skills Activity Answer Key

**William W. Wilen**



## **Inquiry Skills Activity Answer Key:**

*Strategies for Teaching Science, Levels 6-12* Barbara Houtz,2011-06-01 Developed for grades 6 12 this rich resource provides teachers with practical strategies to enhance science instruction Strategies and model lessons are provided in each of the following overarching topics inquiry and exploration critical thinking and questioning real world applications integrating the content areas and technology and assessment Research based information and management techniques are also provided to support teachers as they implement the strategies within this resource This resource supports core concepts of STEM instruction

**Strategies for Teaching Science** Barbara Houtz,2011-07-01 This rich resource provides teachers with practical strategies to enhance science instruction Strategies and model lessons are provided for various umbrella topics

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**Chemical Building Blocks** Michael J. Padilla,David V. Frank,John G. Little,Steve Miller,2000

*Science II Essential Interactions* ,2000-10

**Science I Essential Interactions** ,2000-10

*Teaching Primary Science Constructively* Keith Skamp,Christine Preston,2017-09-05 Teaching Primary Science Constructively helps readers to create effective science learning experiences for primary students by using a constructivist approach to learning This best selling text explains the principles of constructivism and their implications for learning and teaching and discusses core strategies for developing science understanding and science inquiry processes and skills Chapters also provide research based ideas for implementing a constructivist approach within a number of content strands Throughout there are strong links to the key ideas themes and terminology of the revised Australian Curriculum Science This sixth edition includes a new introductory chapter addressing readers preconceptions and concerns about teaching primary science

[Prentice Hall Science Explorer](#) Michael J. Padilla,2002

**Handbook of Formative Assessment in the Disciplines** Heidi L. Andrade,Randy E. Bennett,Gregory J. Cizek,2019-05-14 The Handbook of Formative Assessment in the Disciplines meaningfully addresses current developments in the field offering a unique and timely focus on domain dependency Building from an updated definition of formative assessment the book covers the integration of measurement principles into practice the operationalization of formative assessment within specific domains beyond generic strategies evolving research directions including student involvement and self regulation and new approaches to the challenges of incorporating formative assessment training into pre service and in service educator training As supporters of large scale testing programs increasingly consider the potential of formative assessments to improve teaching and learning this handbook advances the

subject through novel frameworks intersections of theory research and practice and attention to discernible disciplines  
Written for instructors graduate students researchers and policymakers each chapter provides expert perspectives on the  
procedures and evaluations that enable teachers to adapt teaching and learning in process toward student achievement

**Macmillan/McGraw-Hill Science: Earth science teacher's ed**, 2006 Classroom Teaching Skills James Michael  
Cooper, 1986 Much of the material in this book was previously published in Classroom teaching skills a handbook and  
Classroom teaching skills a workbook both c1977 **Science**, 2001 **Focus on Earth Science**, 2001 *Teaching  
Science*, 2006 *Overview and Student Activities for the Appalachia Educational Laboratory Model* Illinois. Department of  
Adult, Vocational, and Technical Education. Research and Development Section, 1978 **Mystery and Detection** Jerry D.  
Flack, 1990 *Teaching Science in the Elementary School* Donna M. Wolfinger, 1984 **Integration of the Secondary  
School Library Media Center Into the Curriculum** Patricia G. Winn, 1991 Teaching library media research and  
information skills series *Handbook of Research on Science Teaching and Learning* Dorothy Gabel, 1994 Sponsored by the  
National Science Teachers Association this handbook provides a uniquely comprehensive and current survey of the best  
research in science education compiled by the most renowned researchers More than summaries of findings the content  
provides an assessment of the significance of research evaluates new developments and examines current conflicts  
controversies and issues in the major science disciplines biology chemistry physics and earth science **Dynamics of  
Effective Teaching** William W. Wilen, 2000 Grade level 8 9 10 11 12 s t

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