

# FEEDING RELATIONSHIPS

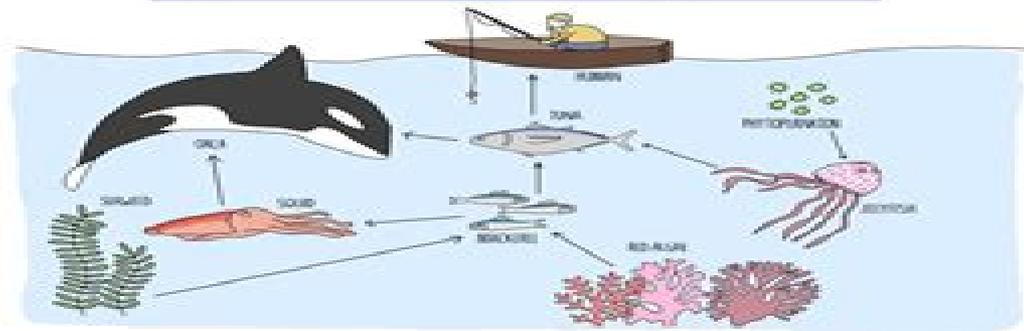
We can use food chains to show the flow of energy from one organism to another. The arrow in a food chain can be thought of as "eaten by". Energy always starts from the Sun and is converted into glucose by photosynthesis in plants. These plants at the beginning of the food chain, which convert light energy into food, are called producers. Producers are eaten by primary consumers, which are eaten by secondary consumers, which in turn are eaten by tertiary consumers.



Herbivore - an organism which only eats plants  
 Carnivore - an organism which only eats animals  
 Omnivore - an organism which eats both plants and animals

Predator - an animal which hunts and kills other animals  
 Prey - an animal which is hunted and eaten by a predator

Food webs show the interaction of multiple interconnected food chains within an ecosystem. For example, in the marine ecosystem pictured below there are a number of food chains which are all connected together. If the population size of any of these organisms changes, it will affect all the other organisms in the food web. This is known as interdependence.



Decomposers also play important roles in food chains by breaking down dead matter. When organisms die, decomposers such as bacteria and fungi secrete digestive enzymes onto the dead material. The enzymes break down the molecules in the organism, converting it into simpler substances which can be absorbed by plants, allowing nutrients to be recycled within an ecosystem.

Pyramids of numbers show the number of organisms (the population size) of each trophic level. The producer is represented at the bottom of the pyramid, with the primary, secondary and tertiary consumers represented on the levels above. Energy is lost at each trophic level of the food chain, which is why the population size usually decreases as you go up the pyramid. These are not always a pyramid shape - for instance if we have a very larger producer such as a tree, then the number of producers (trees) will be much smaller than the primary consumers which feed on it (such as insects).



Pyramids of biomass represent the amount of biomass at each trophic level and will have a regular pyramid shape, since biomass is always lost of each step of the food chain.

Only a proportion (around 10%) is passed onto the next trophic level. Biomass is lost at each stage in the following way:

- Used for respiration to generate energy for processes such as active transport and to maintain body temperature.
- Not all of the organism is eaten (i.e. the bones).
- Not all of the organism is digested - some will be excreted as faeces.

## Questions

Caterpillars feed on leaves and are themselves eaten by lizards. Lizards are eaten by eagles.

1. Draw the food chain for this feeding relationship?
2. Where does the energy in this food chain originate from?
3. Which organism in the food chain is the producer?
4. Which animals in the food chain are herbivores and which are carnivores?
5. What would happen to the populations of other organisms in the ecosystem if the caterpillar population was wiped out by excessive use of pesticides?



# Feeding Relationships Activity Answers

**Jennifer Marie-Neph Baker**



## **Feeding Relationships Activity Answers:**

**Scientifica Essentials** Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of varying abilities *Cambridge Primary Science Stage 6 Teacher's Resource Book with CD-ROM* Fiona Baxter, Liz Dilley, 2014-05-22 Cambridge Primary Science is a flexible engaging course written specifically for the Cambridge Primary Science curriculum framework This Teacher's Resource for Stage 6 contains guidance on all components in the series Select activities and exercises to suit your teaching style and your learners abilities from the wide range of ideas presented Guidance includes suggestions for differentiation and assessment and supplementing your teaching with resources available online to help tailor your scheme of work according to your needs Answers to questions from the Learner's Book and Activity Book are also included The material is presented in editable format on CD ROM as well as in print to give you the opportunity to adapt it to your needs *Voyage of Adventure. Annotated Teacher's Edition*, 1986 *Ecology: Teacher's ed*, 2005

**Current**, 2007 Spotlight Science Keith Johnson, Sue Adamson, Gareth Williams, 2000 Topic Outlines show parts of the PoS to be covered the relationship of the topic to aspects of KS2 and KS4 and warn of equipment that may need special preparation time in advance Topic Maps are provided for students Lesson Notes relating to each double page spread in the students book offer objectives ideas for each lesson detailed references to the PoS level descriptions safety points with references to CLEAPPS HAZCARDS ICT support cross curricular links and equipment lists Answers to all questions in the students book are also provided Additional support material provide Homework Sheets Help and Extension Sheets to optimise differentiation Sc1 Sc1 Skill Sheets Thinking about activities to improve integration of CASE activities with Spotlight Science Revision Quizzes and Checklists etc Extra Help Sheets for each topic extend the range of support for Sc1 and Sc2 4 Challenge Sheets for each topic provide a variety of enrichment activities for more able students They consist of a variety of challenging activities which will present students with opportunities to develop problem solving thinking presentational and interpersonal skills Technician's Cards include help to prepare lessons equipment requirements and CLEAPPS HAZCARD references For more information visit the website at [www.spotlightscience.co.uk](http://www.spotlightscience.co.uk) **McGraw-Hill**

**Education Preparation for the GED Test, Fourth Edition** McGraw Hill Editores, México, 2021-03-19 Essential review and practice for all subject areas of the GED test This book covers all four subjects on the test Reasoning Through Language Arts RLA Social Studies Science and Mathematical Reasoning and provides intensive review and practice Pretests for each subject area will help you identify your strengths and weaknesses before starting your studies Learning objectives are based on the Common Core State Standards just like the real exam Extensive review questions are supplemented by two full length sample tests two in the book and two more on the app This new edition will show you how to master the test's new questions involving critical thinking and reasoning Features New Review questions on critical thinking and reasoning match latest test

New Micro lessons section provides unique test taking strategies New Appendix covers the most important vocabulary for each section of the test 2 full length practice tests Step by step review of each of the test s main sections Reasoning Through Language Arts Mathematical Reasoning Science and Social Studies Top 25 lists that cover the most important concepts for each test subject Learning objectives based on the Common Core State Standards allowing you to use the book for all high school equivalency exams Two Score Raising Apps The Practice Test App provides two additional sample GED tests The Flashcard App includes 100 flashcards to help students review all four test sections

**Prentice Hall Exploring Life Science** Anthea Maton,1997 **Living in Water** National Aquarium in Baltimore,1997 Living in Water is a classroom based scientific study of water aquatic environments and the plants and animals that live in water The lessons in this curriculum integrate basic physical biological and earth sciences and mathematics The integration of language arts is also considered essential to its success These lessons do not require a water monitoring program or access to an aquatic habitat although it includes suggested field experiences for students Several themes run throughout the curriculum including control of variables in the design of valid experiments the usefulness of models in understanding natural systems application of knowledge in the design and testing of models the collection and manipulation of numerical data and identification of things using classification based on common characteristics The curriculum is divided into six sections 1 Living in Water Aquatic Habitats Freshwater Estuarine and Marine 2 Things Dissolve in Water 3 Temperature Changes and Aquatic Habitats 4 Moving or Staying Put Maintaining Position within Aquatic Habitats 5 Light in Water and 6 Wrapping It Up Projects and Programs Each section presents science content information as well as student activities Lessons use various approaches and instructional strategies WRM *Science Interactions* Robert W. Avakian,1995-07-17 Stream Ecology Jennifer Marie-Neph Baker,2008 **Focus on Earth Science** ,2001 **Geography Grade 6** ,1998-03 The Globetrotter Travel Map of the World has been specifically designed as a guide to both the physical and the political World This informative map with stunning shaded relief includes maps of the North and Southpoles large scale projections of the physical world and a detailed political map complete with up to date statistics The map is ideal for home school and office use and contains an index of countries and their capitals a handy world flag panel and interesting world facts Physical Map Separate maps of North and South Poles geographical statistics Political Map Separate maps of North and South Poles countries capital cities flag chart

Earth Science ,2001 **Biological Clocks** Yvan Touitou,1998 Hardbound This volume comprises the lectures and a selection of communications presented at the International Congress on Chronobiology held in Paris in September 1997 During the last three decades it has been shown that a number of physiologic functions are regulated by a system of clocks controlling basal levels of activity and responsitivity to changes in the environment At the beginning of this century 1935 Erwin Bunning was the first to demonstrate that plants and insects still displayed circadian rhythms after they or their parents were raised in constant conditions Later on he was the first to demonstrate that circadian clocks measure the length

of the day In the 1950s Colin Pittendrigh provided strong evidence that circadian phenomena are not learned but they display endogenous properties the periods of which are independent of environmental factors Since then a number of investigations have extensively documented properties *English in Biological Science* Ian Pearson, 1978 Studying a subject in a foreign or second language can create many difficulties Anyone studying biological science in English who feels his command of the language to be inadequate will find this book an invaluable aid It is the result of a great deal of research into the problems of understanding the English language as it is used to communicate scientific facts and ideas Textile World Walter S. Kelley, Henry G. Lord, Walter Bradford Guild, Henry Gratton Kittredge, Samuel Sherman Dale, Charles Hiram Clark, Vernon E. Carroll, Clarence Hutton, 1881-, Douglas Gordon Woolf, 1926 *Journal of the American Medical Association*, 1928 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature **Ocean Studies, Ocean Issues** James A. Kolb, 1996 **American Journal of Physiology**, 1919 Vols for 1898 1941 1948 56 include the Society's proceedings primarily abstracts of papers presented at the 10th 53rd annual meetings and the 1948 56 fall meetings

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