

Chapter 41

Animal Nutrition

Lecture Outline

Overview: The Need to Feed

- All animals eat other organisms—dead or alive, whole or by the piece (including parasites).
- Animal **nutrition** includes the ingestion, breakdown, and absorption of food.
- In general, animals fit into one of three dietary categories.
 1. **Herbivores**, such as cattle, parrotfish, and termites, eat mainly plants or algae.
 2. **Carnivores**, such as sharks, hawks, and spiders, eat other animals.
 3. **Omnivores**, such as cockroaches, bears, and humans, consume animal and plant or algal matter.
- The terms *herbivore*, *carnivore*, and *omnivore* represent the kinds of food that an animal usually eats, but most animals are opportunistic, occasionally eating foods that are outside their main dietary category.
 - For example, cattle and deer, which are herbivores, occasionally eat small animals or bird eggs.
 - All animals consume bacteria along with other types of food.
- To survive and reproduce, animals must balance their consumption, storage, and use of food.

Concept 41.1 An animal's diet must supply chemical energy, organic molecules, and essential nutrients.

- An animal's diet provides chemical energy that can be converted to ATP to power living processes.
- In addition to fuel for ATP production, an animal's diet must supply the raw materials needed for biosynthesis.
 - Animals require a source of organic carbon and a source of organic nitrogen in order to construct their own organic molecules.
- Materials that an animal's cells require but cannot synthesize are called **essential nutrients**.
 - Essential nutrients, which must be obtained from an animal's diet, include both minerals and preassembled organic molecules.

Chapter 41 Animal Nutrition Study Guide Answers

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Student Study Guide for Biology [by] Campbell/Reece Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor, 1999 **Study Guide to Accompany Whitney, Hamilton Understanding Nutrition, Third Edition** Lorraine E. Bailey, Eleanor Noss Whitney, 1984 Special or highlighted themes are included under most of the topic areas e g sugar addiction under the topic of overweight and underweight world hunger under the topic of fat soluble vitamins This study guide is aimed at improving the student s understanding of nutritional concepts and their impacts on health **Introduction to Nutrition, Exercise, and Health** Victor L. Katch, Frank I. Katch, William D. McArdle, 1993 A resource companion to the textbook Introduction to nutrition exercise and health Its purpose is to facilitate understanding of the text by focusing on key terms and concepts and on specific questions within each chapter Includes self assessment tests with answers and helpful hints for studying and preparing for exams *Biology* John Parker, 2004 These New editions of the successful highly illustrated study revision guides have been fully updated to meet the latest specification changes Written by experienced examiners they contain in depth coverage of the key information plus hints tips and guidance about how to achieve top grades in the A2 exams **Molecular Nutrition** Manlio Vinciguerra, Paul Cordero Sanchez, 2020-10-21 Molecular Nutrition Mother and Infant presents the impact of diet in early life stages from pre conception throughout pregnancy and to the infant The book covers the molecular biology of the cell genetic machinery and its function general coverage on diet and nutrition pregnancy placenta weight gain breast milk feeding practices gestational disease glucose metabolism immunity vitamins and minerals Other topics discusses include fetal programming bioactive compounds amino acids intrauterine growth one carbon metabolism overnutrition genetic risk factors polymorphisms folic acid genes DNA methylation genes involved in lipid metabolism microRNAs epigenetics transcriptomics and micro RNA This book will be a welcomed reference for research scientists and practitioners including nutritionists and dieticians **Resources in Vocational Education** , 1977 **B.Sc. Nursing General Nursing & Midwifery (GNM) & CNET Entrance Exam-2026 | Model Solved Papers 2025 Include Nursing Aptitude & 3200+ MCQs Complete Study Guide** Team Prabhat, 2025-08-12 This comprehensive guide is specially designed for students preparing for the B Sc Nursing General Nursing and Midwifery GNM and CNET 2026 entrance examinations It includes the Model Solved Paper for 2025 a dedicated section on the Nursing Aptitude Test and a collection of 3000 objective type questions all curated according to the latest exam pattern Key Features Based on the updated exam syllabus and latest trends Includes fully solved 2025 Model Paper Special section on Nursing Aptitude Test Over 3000 multiple choice questions MCQs with accurate answers Chapter wise practice questions for in depth revision Ideal for self study and final stage preparation The Ultimate Diet Solution Cookbook Nicola Duffield, 2013-11-26 The words healthy and wholesome delicious and tasty are not always compatible but

that is exactly what The Ultimate Diet Solution™ Cookbook achieves helping you to prepare fuss free nourishing meals that don't compromise on taste and enjoyment The Ultimate Diet Solution™ Cookbook includes 100 delectable quick and easy recipes that promote weight loss and wholesome living addresses insulin resistance and lifestyle associated diseases such as coronary heart disease high blood pressure and Type II diabetes features a GI guide and nutritional analysis for each recipe contains ingredient lists for single servings as well as family proportions

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Instructor's Manual to Health Assessment in Nursing Mandava,Morton,1992

Choice ,2004

Instincts by Design Ernest Howard Callahan,2023-09-12

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Understanding Nutrition Eleanor Noss Whitney,1990

The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition Sara Lister,Justine Hofland,Hayley Grafton,Catherine Wilson,2021-04-13

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Food Science: An Ecological Approach Sari Edelstein,2018-01-16 Food Science An Ecological Approach presents the field of food science the study of the physical biological and chemical makeup of food and the concepts underlying food processing in a fresh approachable manner that places it in the context of the world in which we live today **Index**

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