# Using Dichotomous Keys to Identify Arachnids and Insects

### Background:

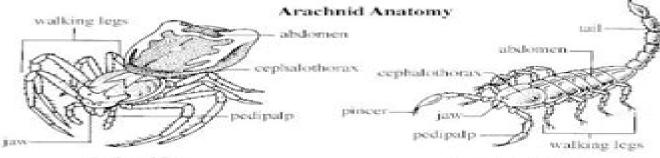
One kind of arachnid, the wind scorpion, is so named because it seems to run as fast as the wind. The sea spider, another arachnid, lives on the ocean floor. The trapdoor spider digs o hole in the ground, covers it with a silk trapdoor, camouflages the trapdoor with leaves, and waits for its prey to walk across the trapdoor. When its prey passes above, the spider feels the vibrations and opens the trapdoor to make the capture. These arachnids are only three examples of the thousands of different types of arachnids. Arachnids, as well as other organisms, are often identified by their physical traits. A dichotomous key, based on visible physical traits, can help you identify members of a group of related organisms. Dichotomous means branching into two parts. As you use a dichotomous key, you read pairs of descriptions and decide which description of each pair is true about the organism you are identifying. In this laboratory you will use and make dichotomous keys for the identification of some arachnids and other arthropods. You still to include your own background on why insects are the most successful arthropod class.

#### Objectives: •

- Use a dichotomous key to identify types of arachnids.
- Construct a dichotomous key for the identification of some insects.
- Hypothesis none
- Variables none

#### Materials:

Pen and paper. Optional: Field guide to arachnids and insects



Crab spider

Yellow Vacjovis

## Part A: Using A Dichotomous Key

- Before you use the dichotomous key to identify the arachmids on the attached page, review
  arachmid anatomy by studying the diagrams above. In all arachmids the body is divided
  into two sections: the cephalothorax and the abdomen. Find the cephalothorax and the
  abdomen in each arachmid. Note how these body sections are joined. Observe whether the
  abdomen is segmented or lacks segments (example, "h" is segmented). All arachmids have
  six pairs of appendages: one pair of jaws, eight walking legs and two pedipalps.
- 2. Use the dichotomous key on the next page to identify each arachnid (a-n). Beginning with the first pair of statements, decide which statement is true for the arachnid. Proceed to the next pair of statements as directed by the key. When the key lists a name rather than a number of a statement pair, then you have identified the arachnid. Be sure to record each step of the key you used to identify the arachnid.

# **Using A Dichotomous Key To Identify Arachnids**

**Paul A. Rees** 

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Jacaranda Science Quest 7 Victorian Curriculum, 3e learnON and Print Graeme Lofts, 2025-08-25 Core Science Stage 4 New South Wales Australian Curriculum, 3e learnON and Print Paul Arena, 2025-08-25 You Need to Know About Spiders Wolfgang Nentwig, Jutta Ansorg, Angelo Bolzern, Holger Frick, Anne-Sarah Ganske, Ambros Hänggi, Christian Kropf, Anna Stäubli, 2022-04-07 All You Need to Know About Spiders Spiders are super predators and devour everything they can overpower To do this they have developed incredibly good catching techniques and with spider silk a tool that makes material technology green with envy The males are usually smaller than the females and in order to have sex they have to come up with a lot to avoid being misunderstood as easy prey Dancing drumming and gifts almost always help Spiders use their venom in very precise doses and since humans are not on their menu they are harmless to us Many people s unnecessary fear of spiders finds cultural roots as early as the Middle Ages Nevertheless spider fear is easily treatable There is no habitat or building without spiders And that s a good thing because spiders have fascinating properties and their world is full of surprises Everything you need to know about them is explained in this book in understandable language by experts for laymen In addition some of the most common spider species in the house and garden are briefly presented with tips for observation The authors This book is authored by eight scientists all of them members of the Association for the Promotion of Spider Research Wolfgang Nentwig Jutta Ansorg Angelo Bolzern Holger Frick Anne Sarah Ganske Ambros H ngqi Christin Kropf und Anna St ubli Picture-Perfect Science Lessons Karen Rohrich Ansberry, Emily Morgan, 2010 How do you improve upon perfection For years new and experienced elementary school

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advanced ones that will keep young learners engaged for hours Just a few of the incredible biologists featured include Create imaginary Galapagos finches and make eggs float on salt water Make a flask like Pasteur's to grow microbes from the air Use cookie crumbs to attract ants Observe the behavior of ants and other animals Book jacket Contemporary Insect Diagnostics Timothy J. Gibb, 2014-10-27 Contemporary Insect Diagnostics aids entomologists as they negotiate the expectations and potential dangers of the practice It provides the reader with methods for networking with regulatory agencies expert laboratories first detectors survey specialists legal and health professionals landscape managers crop scouts farmers and the lay public This enables the practitioner and advanced student to understand and work within this network critically important in a time when each submission takes on its own specific set of expectations and potential ramifications Insect diagnosticians must be knowledgeable on pests that affect human health stored foods agriculture structures as well as human comfort and the enjoyment of life The identification and protection of the environment and the non target animals especially beneficial insects in that environment is also considered a part of insect diagnostics Additionally Integrated Pest Management recommendations must include any of a variety of management tactics if they are to be effective and sustainable This greatly needed foundational information covers the current principles of applied insect diagnostics It serves as a guick study for those who are called upon to provide diagnostics as well as a helpful reference for those already in the trenches Includes useful case studies to teach specific points in insect diagnostics Provides problem solving guidance and recommendations for insect identification threat potential and management tactics while accounting for the varying needs of the affected population or client Contains numerous color photos that enhance both applicability and visual appeal together with accompanying write ups of the common pests Encyclopedia of Entomology John L. Capinera, 2008-08-11 This text brings together fundamental information on insect taxa morphology ecology behavior physiology and genetics Close relatives of insects such as spiders and mites are included Miniature Lives Michelle Gleeson, 2016-03-01 We can t avoid insects They scurry past us in the kitchen pop up in our gardens or are presented to us in jars by inquisitive children Despite encountering them on a daily basis most people don t know an aphid from an antlion and identifying an insect using field guides or internet searches can be daunting Miniature Lives provides a range of simple strategies that people can use to identify and learn more about the insects in their homes and gardens Featuring a step by step illustrated identification key and detailed illustrations and colour photographs the book guides the reader through the basics of entomology the study of insects Simple explanations amusing analogies and quirky facts describe where insects live how they grow and protect themselves the clues they leave behind and their status as friend or foe in a way that is both interesting and easy to understand Gardeners nature lovers students teachers and parents and grandparents of bug crazed kids will love this comprehensive guide to the marvellous diversity of insects that surrounds us and the miniature lives they lead

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