Student's Name	Class	Date
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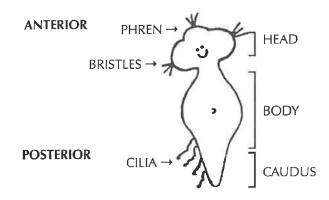
LAB-AIDS® #51 INTRODUCTION TO AND USE OF DICHOTOMOUS KEYS Student Worksheet and Guide

Classification or Taxonomic keys are used by scientists and naturalists to identify living organisms in the wild and in the laboratory. Keys are developed by using similarities and differences in the characteristics (physical, behavioral, and more recently biochemical) of specimens under study. These variations (either-or choices) are used to develop dichotomous keys. The complexity of the dichotomous key is determined by the number of specimens to be identified. Several formats can be used to make keys. The two formats used in this lab activity are generally used for larger samples. The first key, indicated by (A) at the top of the card demonstrates an indented format. The second key indicated by (B) is the non-indented format.

In this lab activity you will:

1. First observe the physical characteristics of the eight (8) specimens in your sample (illustrated specimen cards provided by your teacher). Refer to Figure 1 to familiarize yourself with specific terms describing this "species".

FIGURE 1



2. Using the illustrated specimen cards provided, record the letters of the DICHOTOMOUS KEY OF QUOZES-INDENTED VERSION (A) as they are read while following the key characteristics of each specimen. For example "Specimen IX" A,B,DD,EE.... and so on until the key reveals the scientific name and variety. Record letters used and scientific name in areas indicated in the chart below.

DICHOTOMOUS KEY OF QUOZES-INDENTED VERSION (A)

Specimen Number	Letters used	Scientific Name
I		
11		
[]]		
IV		
V		
VI		
VII		
VIII		

When you have completed the chart above, use the specimen cards with the DICHOTOMOUS KEY OF QUOZES-NON-INDENTED VERSION (B). Record numbers in the chart on back as they are read and indicate scientific name and variety.

DICHOTOMOUS KEY OF QUOZES-INDENTED VERSION (B)

Specimen Number	Numbers Used	Scientific name
l		
II		
111		
IV		
V		
VI		
VII		
VIII		

SUMMARY	QUESTIONS
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1. What are the phys	sical characteristics that all specime	ns have in common	?	
2. Which key was ea	asiest to read and follow?		Why?	
	antages of using a classification key			
	ics of these specimens were most u			
5. Do you think it we key?	ould be easier to identify actual spec Explain your answer		hese illustrated specimens,	
6. What are the limi	tations of keys and taxonomic syste	ms?		
7. Draw below wha	at you think the following specimen	s would look like ba	ased on information found	in the key.
	Sylvesti multipodhairus		Sylvesti dipodcilia	
8. Which specimens	s are included in the Non-indented	version of the dicho	tomous keys, but not in the	e Indented version?

LAB-AIDS® #51 INTRODUCTION TO AND USE OF DICHOTOMOUS KEYS DICHOTOMOUS KEY OF QUOZES-INDENTED VERSION (A)

B. Specimen has a single phren on head C. Specimen has single caudus D. Body pattern present E. Pattern is asymmetrical EE. Pattern is symmetrical F. Spotted pattern F. Spotted pattern Sylvestris spoticus FF. Lineated pattern Sylvestris lineus CC. Specimen has more than a single caudus D. Number of caudii 2 E. Cilia not present on caudii Sylvesti dipodnoncilia EE. Cilia present on caudii Sylvesti dipodnoncilia EE. Cilia present on caudii Sylvesti dipodnoncilia EE. Cilia present on caudii E. Number of caudii 3 F. Cilia not present FC. Cilia present Sylvesti multipodual FF. Cilia present Sylvesti multipodalarus EE. Specimen has multiple phrens on head C. Specimen has multiple phrens on head C. Specimen has single caudus E. Body pattern absent EE. Body pattern present FF. Lineated pattern FF. Lineated pattern Multiphren plainus EE. Body pattern present FF. Lineated pattern Multiphren plainus EE. Body pattern present FF. Lineated pattern Multiphren plainus EE. Body pattern present FF. Lineated pattern Multiphren glamorus spoticus CG. Asymmetrical pattern Var. symmetricus CG. Asymmetrical pattern Var. irregularis AA. Specimen has spile caudus C. Body pattern absent CC. Body pattern present Schizolobus ordinarius CC. Body pattern present Schizolobus arilimiti CC. Ellia absent on caudii Schizolobus hairilimbi CC. Cilia absent on caudii	A. Specimen has a phrened head	
C. Specimen has single caudus D. Body pattern present E. Pattern is symmetrical EE. Pattern is symmetrical F. Spotted pattern F. Spotted pattern F. Lineated pattern Sylvestris lineus CC. Specimen has more than a single caudus D. Number of caudii 2 E. Cilla not present on caudii Sylvesti dipodononcilla EE. Cilla present on caudii DD. More than 2 caudii E. Number of caudii 3 F. Cilla not present F. Cilia not present F. Cilia not present F. Cilia present EE. More than 3 caudii DD. More than 3 caudii DD. More than 3 caudii DD. Specimen has multiple phrens on head C. Specimen has multiple phrens on head C. Specimen has more than two phrens D. Specimen has multiple caudiu F. Lineated pattern F. Spotted pattern Multiphren lineus G. Symmetrical pattern Var. irregularis DD. Specimen has multiple caudii E. Body pattern present F. Spotted pattern F. Spotted pattern F. Spotted pattern Multiphren lineus G. Symmetrical pattern Multiphren lineus G. Specimen has single caudiu C. Body pattern present F. Spotted pattern Multiphren lineus G. Specimen has single caudiu C. Body pattern present F. Spotted pattern Multiphren lineus G. Specimen has single caudiu C. Body pattern present F. Spotted pattern Multiphren lineus Schizolobus danii D. Pattern symmetrical E. Pattern of lines F. Fattern of spots F. Lineus E. Pattern of lines F. Pa	·	
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E. Pattern is symmetrical EE. Pattern is symmetrical F. Spotted pattern F. Cilia present on caudii F. Cilia not present on caudii F. Number of caudii Splyesti dipodnoncilia F. Cilia present on caudii F. Number of caudii Splyesti dipodnoncilia F. Cilia present F. Cybectimen has multiple phrens on head C. Specimen has two phrens D. Specimen has single caudus F. Body pattern absent F. Spotted pattern F. Spotted pattern F. Spotted pattern F. Lineated pattern F. Cilia present F. Lineated pattern F. Spotted pattern F. Lineated pattern F. Spotted pattern F. Lineated pattern F. Spotted pattern F. Spotted pattern F. Spotted pattern F. Lineated pattern F. Lineatern F. Spotted pattern F. Lineated pattern F. Lineatern F. Li	DD. Body pattern present	
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FF. Lineated pattern		Sylvestris spoticus
CC. Specimen has more than a single caudus D. Number of caudii 2 E. Cilia not present on caudii		
D. Number of caudii 2 E. Cilia not present on caudii		·
D. Number of caudii 2 E. Cilia not present on caudii	CC. Specimen has more than a single caudus	
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F. Cilia not present	DD. More than 2 caudii	
FF. Cilia present	E. Number of caudii 3	
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BB. Specimen has multiple phrens on head C. Specimen has two phrens. D. Specimen has more than two phrens D. Specimen has single caudus E. Body pattern absent	FF. Cilia present	Sylvesti multipodhairus
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D. Specimen has single caudus E. Body pattern absent	C. Specimen has two phrens	Duophrend ineedus
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F. Spotted pattern	E. Body pattern absent	Multphren plainus
FF. Lineated pattern	EE. Body pattern present	
G. Symmetrical pattern var. symmetricus GG. Asymmetrical pattern var. irregularis DD. Specimen has multiple caudii E. Body pattern absent Multiphren lostus EE. Body pattern present F. Spotted pattern Multiphren glamorus spoticus FF. Lineated pattern Multiphren glamorus lineus G. Symmetrical pattern var. symmetricus GG. Asymmetrical pattern var. symmetricus GG. Asymmetrical pattern var. irregularis AA. Specimen has split head B. Specimen has single caudus C. Body pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical var. eveness DD. Pattern of symmetrical E. Pattern of lines var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	F. Spotted pattern	Multiphren spoticus
GG. Asymmetrical pattern var. irregularis DD. Specimen has multiple caudii E. Body pattern absent Multiphren lostus EE. Body pattern present F. Spotted pattern Multiphren glamorus spoticus FF. Lineated pattern Multiphren glamorus lineus G. Symmetrical pattern var. symmetricus GG. Asymmetrical pattern var. irregularis AA. Specimen has split head B. Specimen has single caudus C. Body pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical var. eveness DD. Pattern not symmetrical E. Pattern of lines var. lineus EE. Pattern of spots var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	FF. Lineated pattern	Multiphren lineus
DD. Specimen has multiple caudii E. Body pattern absent	G. Symmetrical pattern	var. symmetricus
E. Body pattern absent	GG. Asymmetrical pattern	var. irregularis
EE. Body pattern present F. Spotted pattern F. Spotted pattern F. Lineated pattern Multiphren glamorus spoticus FF. Lineated pattern Multiphren glamorus lineus G. Symmetrical pattern Multiphren glamorus lineus G. Symmetrical pattern Multiphren glamorus spoticus C. Symmetrical pattern Var. symmetricus G. Asymmetrical pattern D. Pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical Var. eveness DD. Pattern not symmetrical E. Pattern of lines Var. lineus EE. Pattern of spots Var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	· · · · · · · · · · · · · · · · · · ·	
F. Spotted pattern	, · ·	Multiphren lostus
FF. Lineated pattern	···	
G. Symmetrical pattern var. symmetricus GG. Asymmetrical pattern var. irregularis AA. Specimen has split head B. Specimen has single caudus C. Body pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical var. eveness DD. Pattern not symmetrical E. Pattern of lines var. lineus EE. Pattern of spots var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	·	· · ·
GG. Asymmetrical pattern var. irregularis AA. Specimen has split head B. Specimen has single caudus C. Body pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical var. eveness DD. Pattern not symmetrical E. Pattern of lines var. lineus EE. Pattern of spots var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	•	
AA. Specimen has split head B. Specimen has single caudus C. Body pattern absent CC. Body pattern present. D. Pattern symmetrical E. Pattern of lines EE. Pattern of spots BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus ordinarius Schizolobus dandi var. eveness var. eveness var. lineus Schizolobus hairilimbi	•	•
B. Specimen has single caudus C. Body pattern absent CC. Body pattern present	•	var. irregularis
C. Body pattern absent Schizolobus ordinarius CC. Body pattern present Schizolobus dandi D. Pattern symmetrical var. eveness DD. Pattern not symmetrical E. Pattern of lines var. lineus EE. Pattern of spots var. spoticus BB. Specimen has multiple caudii C. Cilia present on caudii Schizolobus hairilimbi	•	
CC. Body pattern present		
D. Pattern symmetrical		
DD. Pattern not symmetrical E. Pattern of lines	· · · · ·	
E. Pattern of lines	•	,var. eveness
EE. Pattern of spots	·	**
BB. Specimen has multiple caudii C. Cilia present on caudii		
C. Cilia present on caudii	•	var. spoticus
•		6-1 to 1-1 to 1-1 to 10 - 1 to
CC. Chia absent on caudii	·	
	CC. Cilia absent on caudii	Scnizolobus projbaidi

LAB-AIDS® #51 INTRODUCTION TO AND USE OF DICHOTOMOUS KEYS DICHOTOMOUS KEY OF QUOZES-NON-INDENTED VERSION (B)

1.	If specimen has phrened head, go to	
	If specimen has split head go to	19
2.	If specimen has one phren, go to	
	If specimen has more than one phren, go to	5*
3.	If specimen has single caudus, go to	4
	If specimen has more than single caudus, go to	12*
4.	If specimen has a single phren, go to	5
	If specimen has multiple phrens	Multiphren plainus
5.	If specimen has no body pattern, go to	
	If specimen has body pattern, go to	6
6.	If specimen has lineated pattern, go to	
	If specimen has spotted pattern	Sylvestris spoticus
7.	If specimen has a single phren, go to	9
	If specimen has more than one phren, go to	8
8.	If specimen has symmetrical body pattern	
	If specimen has asymmetrical body pattern	Multiphren lineus var. irregularis
9.	If specimen has single caudus, go to	
	If specimen has more than one caudus, go to	12
10	If specimen has no body pattern	Simpletonus plainus
	If specimen has body pattern, go to	11
	If specimen has lineated pattern	Sylvestris lineus
	If specimen has a wavy pattern	Sylvestris wavus
12.	If specimen has 2 caudii, go to	13
	If specimen has more than 2 caudii, go to	14
13.	If specimen has cilia present on caudii	
	If specimen has no cilia present on caudii	Sylvesti dipodnoncilia
14.	If specimen has only 3 caudii, go to	
	If specimen has more than 3 caudii, go to	
15.	If specimen has cilia present on 3 caudii	Sylvesti multipodhairus
	If specimen has no cilia present on caudii	
16.	If specimen has a single phren, go to	
	If specimen has 2-6 phrens	Multiphren lostus
17.	If specimen has body pattern, go to	
	If specimen has no body pattern	
18.	If specimen has a wavy pattern	Plenticaudii undulata
	If specimen has spotted pattern	Plenticaudii blotcho
19.	If specimen has single caudus, go to	20
	If specimen has more than one caudus, go to	
20.	If specimen has body pattern, go to	
	If specimen has no body pattern	Schizolobus ordinarius
21.	If specimen has symmetrical pattern	Schizolobus dandi var. eveness
	If specimen has asymmetrical pattern, go to	22
22.	If specimen has a body pattern of spots	Schizolobus dandi spoticus
	If specimen has a body pattern of lines	Schizolobus dandi lineus
23.	If specimen has cilia present on caudii	Schizolobus hairilimbi
	If specimen has no cilia present on caudii	

