Dichotomous Key to Salamanders

Introduction:

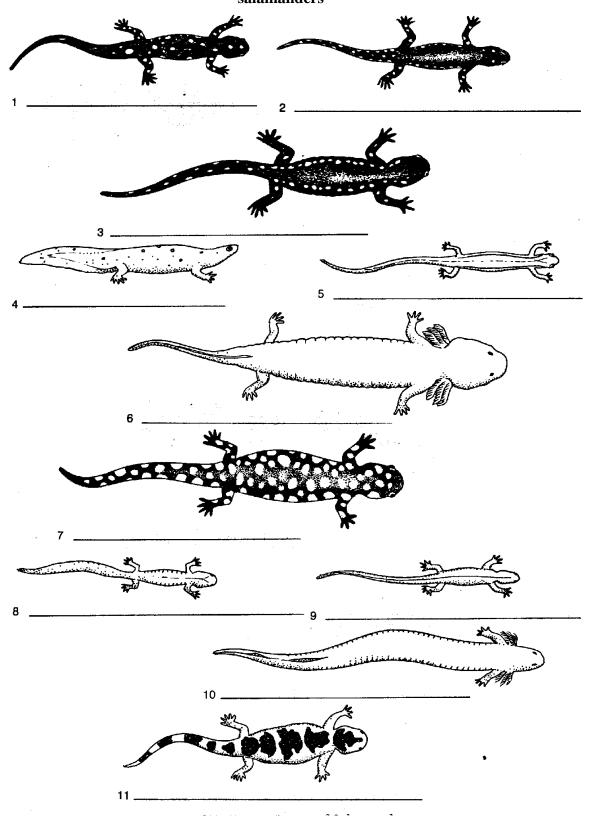
A dichotomous key is constructed of a series of couplets, each consisting of two separate statements. For example:

By reading the two statements of each couplet, you progress through the key from typically broad characteristics to narrower characteristics until only a single choice remains. As long as the correct statement of each couplet is chosen, and the unknown organism is included in the key, a confident identification is usually achieved. Many types of organisms can be identified using a dichotomous key. In this lab, you will identify salamanders.

Procedure:

- 1. Use the dichotomous key provided to identify the salamanders in Figure 1.
- 2. Write the pathway you took to get to the name of the salamander next to the drawing.
- 3. Write the correct name for the salamander on the line below each picture.

Figure 1 - Types of salamanders



Key to the Salamanders:

1	<u>а</u>	Hind limbs absent	Siren
	 b	Hind limbs present	Go to 2
2	a	External gills present in adults	Mud puppy
_		External gills absent in adults	Go to 3
3	 a	Large size (over 7 cm long)	Go to 4
	b	Small size (under 7 cm long)	Go to 5
		Body background black, large white spots irregular in shape	Tiger
4	a	and size completely covering body & tail	salamander
		Body background black, small, round, white spots in a row	Spotted
	b	along each side fro eye to tip of tail	 Salamander
5	a	Body background black with white spots	Go to 6
	b	Body background light color with dark spots and or lines on	Go to 7
		body	T CC
6	a	Small white spots on a black background in a row along each side from head to tip of tail	Jejjerson salamander
	b	Small white spots on a scattered throughout a black	Slimy
		background from head to tip of tail	salamander
7	a	Large irregular black spots on a light background extending	Marbled
		from head to tip of tail	salamander
	b	No large irregular black spots on a light background	Go to 8
8	a	Round spots scattered along back and sides of body, tail flattened like a tadpole	Newt
	b	Without round spots and tail not flattened like a tadpole	Go to 9
9	a	Two dark lines bordering a broad, light mid-dorsal stripe with a narrow median dark line extending from the head onto the tail	Two-lined salamander
	b	Without two dark lines running the length of the body	Go to 10
10		A light stripe running the length of the body and bordered by	Red-backed
	a	dark pigment extending downward on the sides	salamander
	b	A light stripe extending the length of the body, a marked	Four-toed
	N	constriction at the base of the tail	salamander