# WHAT ARE HERPTILES?



- 1. Vertebrates are animals that have \_\_\_\_\_
- 2. Complete the following chart of vertebrate groups:

	SKIN COVERING?	GILLS OR LUNGS?	EGGS LAID WHERE?	ENDOTHERMIC OR ECTOTHERMIC
Fish				
AMPHIBIANS	Naked			
REPTILES				
Birds				Endothermic
Mammals		Lungs		

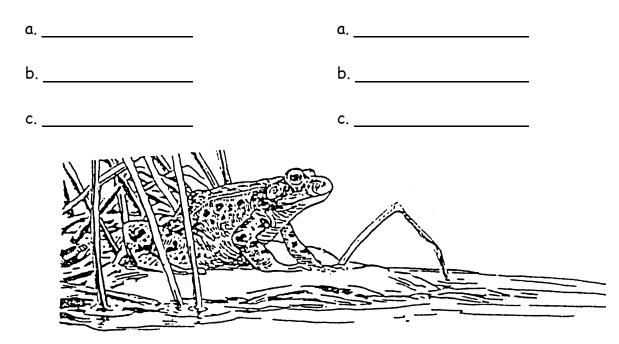
3. HERPETOLOGY means \_\_\_\_\_

#### WHO ARE HERPTILES?

1. List the major groups of herps found in the Sonoran Desert.

AMPHIBIANS

#### REPTILES



# WHICH IS WHICH?

## SKIN

- 1. Examine a live amphibian and answer these questions:
  - a. Do amphibians have a protective covering over their skin?
  - b. Why must amphibians live in or around water?
- 2. Examine a live reptile and answer these questions:
  - a. What are reptile scales made of? \_\_\_\_\_
  - b. What advantage do scales give reptiles over the amphibians?
- 3. Examine a snake shed.
  - a. Are a snake's eyes covered with scales?
  - b. Why do reptiles shed their scales? \_\_\_\_\_\_

### GROWING UP

- 1. Compare an amphibian egg and a reptile egg.
  - a. What is the purpose of the jelly-like coating around the amphibian egg?
  - b. List 2 ways reptile eggs differ from amphibian eggs:
- 2. Compare a young amphibian and a young reptile.
  - a. Which one goes through METAMORPHOSIS?
  - b. What are larval frogs called? \_\_\_\_\_\_
  - c. Compare a young and adult frog and circle the words that apply:

	Ð	lives where?	breathing	food	legs?	tail?
Color)	ADULT	land & water	lungs	plants	yes	yes
		only water	gills	insects	no	no
	TADPOLE	land & water	lungs	plants	yes	yes
6)		only water	gills	insects	No	no





\_\_\_\_\_

- 3. Study the life cycle of a spadefoot toad:
  - a. What is unusual about its life cycle?
  - b. Why does it develop so fast?

# AMPHIBIANS - DOUBLE LIFE FOR LAND AND WATER

#### LIVING IN WATER

- 1. Watch a live spadefoot and salamander swim and tell which body parts are used for swimming.
  - a. Spadefoot: \_\_\_\_\_
  - b. Salamander: \_\_\_\_\_

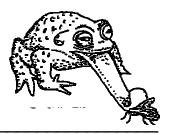
2a. Where are the spadefoot's sense organs located?
2b.How is this an advantage for living in the water?

## LIVING ON LAND

- 1. a. What does a spadefoot do when the water its living in dries up?
  - b. What adaptation does it use to do this?\_\_\_\_\_\_
- 2. Where might you find you find salamanders in the Sonoran Desert?

## LIFESTYLES OF THE SONORAN DESERT TOAD

1. How does the Sonoran Desert Toad protect itself from predators?



- 2. What are some of the foods that it eats?
- 3. Describe how these bodyparts are used when a toad eats:
  - a. Tongue: \_\_\_\_\_
  - b. Teeth: \_\_\_\_\_
  - c. Eyes: \_\_\_\_\_



## GETTING AROUND

- 1. Examine a snake, lizard and tortoise skeleton.
  - a. Do all reptiles have ribs? \_\_\_\_\_ Where are a tortoise's ribs? \_\_\_\_\_
  - b. What are some advantages to having clawed feet? \_\_\_\_\_\_
  - c. What is an advantage to being legless?

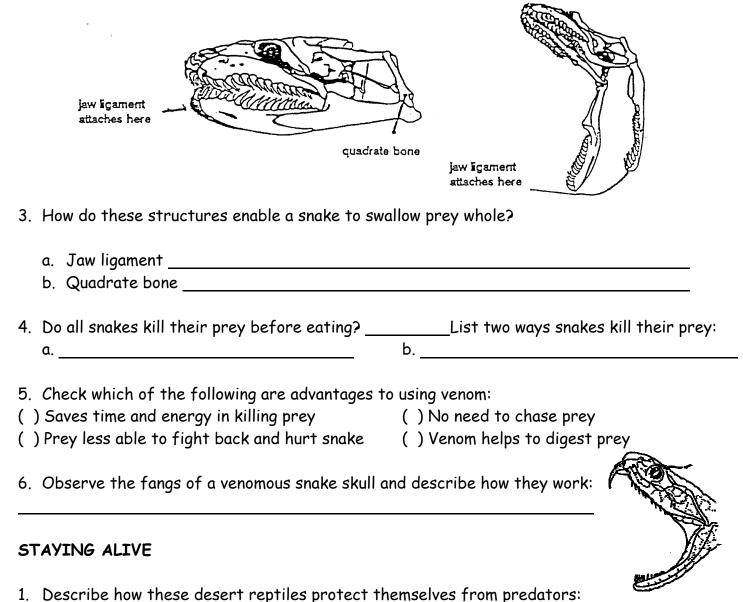


- 2. a. What is a tortoise shell made of? \_\_\_\_\_
  - b. Besides a shell, how else might a desert tortoise protect itself from predators?
- 3. Watch a live snake crawl and describe how these parts are used:
  - a. Belly scales\_\_\_\_\_
  - b. Body loops\_\_\_\_\_
- 4. What senses does the snake use to find prey?

# EATING DINNER

- 1. Examine turtle, lizard and snake skulls:
  - a. Do turtles have teeth?
  - b. Why are RECURVED teeth an advantage to snakes? \_\_\_\_\_\_

Find these parts on a snake skull:



- a. Horned lizard
- b. Mountain kingsnake \_\_\_\_\_
- c. Chuckwalla or desert iguana \_\_\_\_\_



# THE HUMAN CONNECTION

(When you return to school, discuss the following questions and fill in the correct answer. Some of these questions will stimulate value judgement.)

1. How is snake venom beneficial to human health?

2. Are snakes a better alternative to ridding a house of rats than using poisons? Why or why not?

3. Groundwater levels a dropping bout 4 feet a year in southern Arizona. How might this affect a population of amphibians?\_\_\_\_\_

4. Some people take reptiles from the desert to sell as pets. What do you think about this practice?\_\_\_\_\_

5. Some states hold annual "rattlesnake roundups" in which hundreds of snakes are killed. Is this practice good or bad? \_\_\_\_\_ Why? \_\_\_\_\_