

# The Secret World of Bats

## ANSWER KEY

### True or False

1. False Bats are blind.
2. False Bats are diurnal (more active in the daytime).
3. False Vampire bats eat fruit.
4. False Antarctica has the same number of bats as North America.
5. True Some bats eat moths and other insects.

### Short Answers

1. When are bats more active, during the day or at night?  
**Bats are more active at night.**
2. What characteristics help bats avoid accidents and hunt prey?  
**Bats' noses and large ears help them to use echolocation to avoid accidents and catch their prey.**
3. What is echolocation?  
**Echolocation is the sending out of sound waves and then reading them once they bounce back.**
4. What types of things eat bats?  
**Red-tailed hawks, snakes, beetles (eat baby bats) and humans eat bats.**
5. What is guano? What is it used for?  
**Guano is bat excrement. Guano can be used for fertilizer. Scientists are hoping it can also be used as a way to detoxify industrial waste and for other important uses. One spoonful of guano can contain approximately 1,000 species of bacteria.**
6. What does a vampire bat do that makes many people think it is a "bad" animal?  
**The vampire bat feeds on blood. It has an anti-coagulant in its saliva that keeps blood flowing from the prey that the vampire bat has bitten.**
7. Can we hear bats when they call?  
**No, we cannot hear bats when they call. This is because they make ultrasonic sounds that are beyond our hearing range.**

*Making the best better!*

Find the words that go in the blanks by using the puzzle.

E	C	H	O	L	O	C	A	T	I	O	N	U	P	I	J	P
A	S	D	E	W	D	R	F	G	T	A	C	X	R	N	K	O
A	N	T	I	C	O	A	G	U	L	A	N	T	O	S	L	L
S	E	E	S	F	B	L	O	O	D	R	O	U	O	E	O	L
G	A	N	T	E	D	F	T	G	O	K	U	R	F	C	P	I
U	W	I	Y	O	U	R	S	A	N	D	H	E	G	T	I	N
A	I	S	S	N	A	K	E	S	F	G	T	T	T	S	U	A
N	L	D	E	R	T	G	A	K	J	U	T	K	R	T	Y	T
O	D	F	Q	E	D	R	R	Y	K	I	J	M	E	G	H	E
R	S	R	A	Q	Z	D	S	Z	D	F	E	R	S	B	N	H

1. Vampire bats feed on **BLOOD**.
2. **GUANO** is what bat waste is called and it is used in all different types of fertilizers.
3. Some things that eat bats other than people are birds, beetles and **SNAKES**.
4. Most bats eat moths and other **INSECTS**.
5. The **EARS** on bats are usually really big.
6. Vampire bats secrete an **ANTICOAGULANT** which prevents blood from clotting so that they can eat their fill.
7. Bats as well as insects, birds, and animals help to **POLLINATE** plants and trees.
8. The process of emitting high pitched noises so that bats can find their prey when flying is called **ECHOLOCATION**.

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