

# *Lava Beds National Monument*

## **Unit 4 – Activity A: Bats of Lava Beds**

### **OBJECTIVES**

Students will learn about four of the 14 different bat species which live at Lava Beds National Monument and understand the importance of cave closures.

### **MATERIALS**

- Bat ID Sheets (2 copies of 4 bat species)
- Bat cards
- Overheads (optional)

### **You will need to provide**

- Copies of *Bats of Lava Beds: Student Log Sheet*
- Poster making materials
- Paper clips, 70 per group
- Metric Rulers
- Overhead Projector (optional)

### **SUBJECTS**

Reading Comprehension, Life Science, Mathematics

### **SKILLS**

Reading, group work, writing, investigation, and mathematics

### **METHOD**

1. Hand out copies of *Bats of Lava Beds: Student Log Sheet*, one for each student. Using the *Bats of Lava Beds, Teachers Information* section, discuss vocabulary words: maternity colony, echolocation, pup, hibernation and roost with your students.
  2. Have students break into 4 – 8 groups, pass out a *Bat ID Sheets* to each group, and a *Bat Card* to each student. Have students use the *Bat ID Sheets* to finish filling out their *Lava Beds Bats: Student Log Sheet*, and the back of their *Bat Card*. Have students switch papers and check answers. Use overhead if desired. Students can keep their *Bat Cards*.
  3. Have groups give an oral presentation to the class about their bat detailing: length, weight, roosting sites and what states they live in.
  4. Discuss why cave closures are important to bat populations.
  5. Pass out poster materials and have students make cave closure posters. Art can be a good medium to describe the cave closure. Have the students present their poster to the class and explain why cave closures are important.
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## **EXTENSION**

1. Using “Bats of the World” have students fill out the sheets and give a quick presentation about a different bat than they had before.
2. Take students to library to research bats. If you wish you could see if the library nearest you has copies of books listed below. Have students give oral report or presentation of each of the fourteen bats which live in Lava Beds National Monument.

### **Books About Bats**

Arnold, C. 1996. *Bat*. Morrow Junior Books, New York, 48 pp.

Bash, B. 1993. *Shadows of the Night: The Hidden World of the Little Brown Bat*. Sierra Club Book for Children, San Francisco, California, 30 pp.

Cannon, J. 1993. *Stellaluna*. Harcourt Brace and Company, New York, 48 pp.

Lollar, A. 1992. *The Bat in My Pocket: A Memorable Friendship*. Capra Press, Santa Barbara, California, 86 pp.

Lovett, S. 1991. *Extremely Weird Bats*. John Muir Publications, Santa Fe New Mexico, 50 pp.

Milton, J. 1993. *Bats: Creatures of the Night*. Frosset and Dunlanp, Inc., New York, 48 pp.

Runk, D., and L. C. Wood. 1989. *Bats*. Zoobooks. Wildlife Education Ltd., San Diego, California, 17 pp.

Stuart, D. 1994. *Bats: Mysterious Flyers of the Night*. Carolrhoda Books, Inc., Minneapolis, Minnesota, 45 pp.

These and other books are available from Bat Conservation International  
PO Box 162603, Austin, TX 78716-2603

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