

BINOCULARS AND BIRD GUIDES

THIS CRATE CONTAINS:

BINOCULARS: # 1-15

COLOR: Pink

FIELD GUIDES:



DEAR TEACHERS:

Please have your students take the binocular out of the case, remove the lens caps, replace caps in the case, and put the case back in the crate. Everyone should always put the strap around their necks to prevent dropping the binoculars. To return them, tell students to find the case that matches the color and number painted on their binocular, replace the lens caps, put the binocular in the case, then gently set them into the crate. Dropping binoculars usually damages them beyond repair.

PARTS OF THE BINOCULAR:

The larger end of the binoculars is the *objective lens*. The lens with the eyepiece is the *ocular lens*. The right ocular lens rotates. The number stamped on the *shoulder plate* indicates the magnification power and the diameter. For example, 7 x 35 means these binoculars magnify objects 7 times as much as normal vision. The objective lens is 35 mm in diameter. The greater the diameter, the greater the light gathering power or brightness. A 7 x 50 binocular will deliver more light to the eye than a 7 x 35 binocular.

STUDENT INSTRUCTIONS ON REVERSE

These Binoculars Were Donated to The Poudre School District

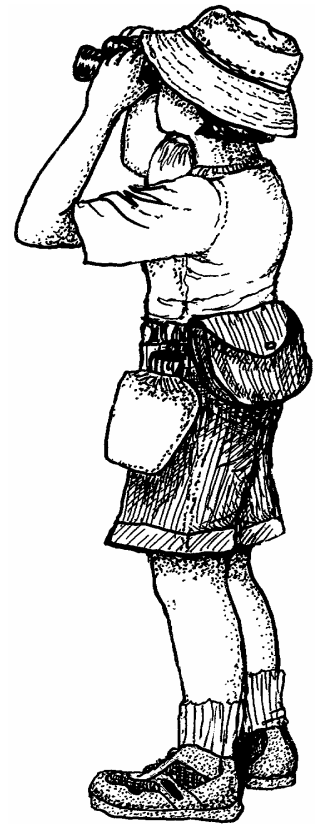
By the City Of Fort Collins Natural Areas Program



naturally yours

HOW TO USE BINOCULARS:

- Take the binocular out of the case, remove lens caps and put them in the case. Put binocular strap around your neck. Take care to avoid bumping or dropping your binocular.
- Stand with feet shoulder-width apart, and in a staggered position (one foot slightly ahead of the other – reduces fatigue).
- If you wear glasses while looking through the binocular, roll the rubber lens cups down.
- Raise the binocular to your eyes and adjust the width by pressing the hands together or pushing them apart, until the binocular fits your interpupillary distance between the eyes.
- Use the center focusing wheel to bring a distant object into focus.
- Close the left eye (or cover the left objective lens with your hand) and turn the right eyepiece until the object comes into sharp focus.
- Note where the number and the dots on the right eyepiece lines up. The binocular is now set for your eyes. This method adjusts the focus for any difference between in vision between your eyes.
- Zoom in and out using the center wheel.
- While looking at a distant object with your eyes, slowly raise the binocular to your eyes without moving your head. Zoom in and out until you've found the object in your binocular.
- When finished, find the case that matches the number and color painted on the binocular, replace the lens caps, put binocular in the case and seal the case.
- *Gently* set binocular back in the crate.



City of Fort Collins Master Naturalists are available to give nature talks. We provide free standards-based field activities that integrate science with reading, writing, math and art. For assistance in organizing your field trip contact Susan Schafer, Education and Volunteer Coordinator, 970-416-2480, sschafer@fcgov.com