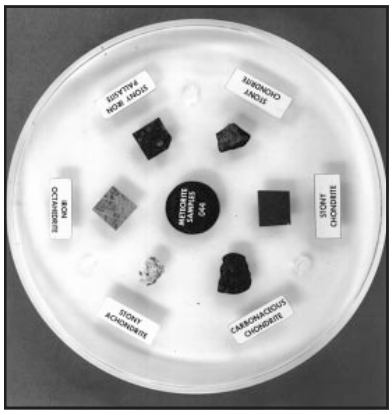
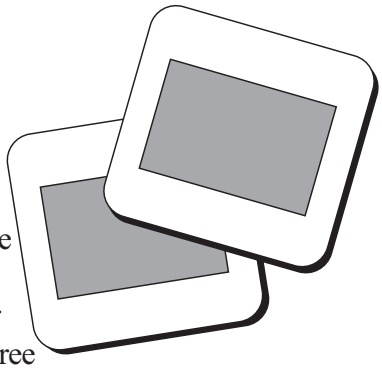
About the Meteorite Sample Disk



The Meteorite Sample Disk contains six labeled meteorites embedded in a 15 cm plastic disk. These pieces of asteroids represent the products of basic planetary processes: accretion, differentiation, volcanism and impact. Educators may borrow the Meteorite Sample Disk containing these rocks from space to help students learn about the early history of the solar system. The Meteorite Sample Disk package contains the disk, a copy of this activity guide, and the *Exploring Meteorite Mysteries* slide set described below.

To borrow the Meteorite Sample Disk educators must first attend a short certification briefing on security requirements and handling procedures. This is the same certification as for borrowing the Lunar Sample Disk. These briefings are given by NASA staff at locations around the country. Following certification educators may request the loan of the disks for periods of one to two weeks. Written requests should be sent to the NASA Educator Resource Center in your geographic area at least one month before the requested loan date. For more information on scheduling certification and request procedures, educators should contact their Educator Resource Center at the locations given on page B.2 at the end of this book.

About the Slide Set



A set of forty-eight 35 mm slides has been prepared to supplement the activities in this *Exploring Meteorite Mysteries* book. The slides and narrative descriptions are divided into four parts. The first 25 slides present a general introduction to meteorites and what they tell us about the history of the solar system. It begins with observations of meteorite falls, depicts meteorites and their formation processes, and concludes with their impact on life and future exploration of the solar system. The remaining three parts are more detailed sections for use with various lessons in the activity guide. These sections reuse some of the slides from the introduction. One section on impact craters illustrates craters on Earth, the Moon and other planets. The next section on classification and formation depicts various meteorite types and the processes of accretion, differentiation, volcanism, and impact. The final section shows collection, curation, and research on Antarctic meteorites.

The slide set is distributed to educators with the Meteorite Sample Disk. Anyone desiring a permanent copy of the slide set may order it at cost from NASA Central Operation of Resources for Educators (CORE). The address and various contacts for CORE are listed on page B.2 at the back of this book.