

## **Launch Day Overview and Procedures (LDOP)**

### **What the Space Week Study Trip Looks Like**

Teachers can use this information to help prepare and excite students for the KSC Study Trip. Look for ways to connect the lessons in this guide to the study trip. It may also be helpful in communicating to parents and chaperones what the study trip will look like.

**Launch activities have evolved over the last four years and will continue to do so.** Beginning with the 2007 academic year, activities will focus on NASA's future goals of building a permanent station on the moon, lunar launches to Mars and explorations yet to be decided. Activities are also designed to highlight KSC's new Shuttle Launch Experience (SLE).

Below are descriptions of some of the areas that students have visited during past Space Week Mission: KSC study trips.

#### **Apollo Saturn V Center/Lunar Theater & Astronaut Briefing**

Students will begin their day with a visit to the Apollo Saturn V Center. Each student will participate in a scavenger hunt, then, watch a presentation in the Lunar Theater. Before leaving the Lunar Theater a Space Shuttle Astronaut will welcome the students to the KSC Visitor Complex and deliver a special message. Each class will bring a prepared question and the astronaut will answer selected questions.

**ACTIVITY:** As a follow up activity for the Astronaut Encounter, you may access the astronauts' biographies online at <http://www.jsc.nasa.gov/Bios/>

#### **NASA Exploration Station and the IMAX Film: Magnificent Desolation**

Students will participate in an Exploration Station Briefing led by NASA Educators, featuring demonstrations and experiments using audience volunteers that highlight space science principles.

**ACTIVITY:** Review with the students the concepts explored while engaged in the Minimum Curricular Requirement activities and inform them that they will be experiencing other activities to support these concepts. After the study trip, check out **spaceplace.nasa.gov** for more exciting gyroscope activities.

**Magnificent Desolation Lunar Base IMAX 3-D:** The IMAX 3D film captures the excitement and magnitude of NASA's return to the moon and of the amazing project that will be built on the lunar surface in a way that no other medium can.

*Shuttle Launch Experience* immerses visitors in the sights, sounds and feelings of a Space Shuttle launch, an incredible journey of launching into space and orbiting Earth aboard a Space Shuttle. Guest crewmembers strap in and go vertical for launch in a one-of-a-kind customer designed crew cabin the only unique-in-the-world simulation of a launch ever created. The five-minute launch sequence culminates with a breath-taking view of Earth "from space".

All areas of *Shuttle Launch Experience* are fully wheelchair accessible. Customized by-pass rooms provide the full attraction experience without the motion. Each payload bay simulation area contains a room where guests may view the exterior of the crew cabin. On-board cameras let visitors view the inside of the crew cabin to see their family/friends. For the hearing impaired, mirrored screens are available to view the closed captioning of the pre-show.