

UNITED STATES **SPACE CAMP**SM

YOUTH SCIENCE
PROGRAM



CONDUCTED BY

ALABAMA SPACE & ROCKET CENTER
EARTH'S LARGEST SPACE MUSEUM
Huntsville, Alabama

UNITED STATES SPACE CAMPSM

The countdown is on for the most exciting summer experience this side of the Moon. Come to the United States Space Camp at the Space & Rocket Center in Huntsville, Ala. It is earth's largest space museum.

For boys and girls who have completed sixth, seventh, and eighth grades during the 1982-1983 school year, U.S. Space Camp stimulates interest in science and space technology. Learn how the Space Shuttle evolved from early manned space programs and discover how you can become involved with space exploration with varied career opportunities.

The initial camp has been acclaimed worldwide, by The New York Times, "Good Morning America," the National Geographic Society, "Today," CBS News, "That's Incredible," Weekly Reader, and the media in Germany, Italy, France and Japan.

Each day opens new adventures as campers enter missions which lead them from the early days of rocketry to today's Space Shuttle and tomorrow's space stations. It's a week of computers, exercise, teamwork, astronaut gear, NASA tours and a mock shuttle mission.

The extraordinary camp begins with arrival, registration and orientation on Sunday afternoon, followed by:

DAY ONE: The mission of *Rocketry Day* is to understand the principles of rocket structure, propulsion, launch and guidance. After involvement in rocketry concepts, campers begin assembly of individual model rockets. A guided tour of the rocket park which former Astronaut John Glenn calls "the most complete in the world" identifies the roles of each rocket in the advancement of the space program. Most of the rockets were engineered and tested at the nearby NASA-Marshall Space Flight Center and U.S. Army-Redstone Arsenal.

DAY TWO: Astronauts train for many years before their missions into space. The mission of *Astronaut Training Day* involves campers in a variety of specific activities, from packaged food and waste management systems to life support systems for living in space. Campers handle

spacesuits, helmets and backpack life support units. A tour of the center where Skylab astronauts trained before the longest American missions in space is on the agenda.

DAY THREE: A highlight of U.S. Space Camp, *Gravity-No Gravity Day*, casts youngsters in the role of astronauts preparing for space walks and coping with the "zero gravity" of space. First, they step on scales to demonstrate what they would weigh on the Moon, and then practice in the "moon walk trainer" which reduces body weight to one-sixth normal, or one's weight on the Moon. Their team leader spins and tumbles in the Multi-Axis Trainer, similar to the device in which Mercury and Gemini astronauts were conditioned should their craft tumble out of control. They experience the sensation of up to 3 G's — or triple normal body weight — during launch in the Lunar Odyssey and rendezvous with an orbiting space station while aboard the Shuttle Spaceliner. A behind-the-scenes tour at NASA's neutral buoyancy tank — a million-gallon water tank where astronauts have trained — prepares campers for a trip to a nearby swimming pool and an underwater task involving simulated weightlessness.

DAY FOUR: With the Marshall Space Flight Center in the forefront of planning for orbiting space stations, campers study development of large space structures and their benefits for mankind. The mission of *Tomorrow's Technology Day* outlines a variety of careers in the aerospace field — apart from that of astronaut — which will be available in the future. Courses of study are also recommended. Activity with computers, a part of each day at camp, is intensified. Campers also launch their model rockets.

DAY FIVE: The culmination of the week is *Space Shuttle Mission Day*, an experience about which most youngsters can only dream. Each team of 10 youngsters is divided into crews for the shuttle spacecraft and Mission Control. Using equipment acquired from NASA, team members conduct a simulated mission, beginning with checkout, countdown, launch, on-orbit and return to Earth. Each team's performance depends upon how well campers apply principles learned earlier in the week. After lunch of freeze dried food like the astronauts eat, campers in concluding ceremonies receive their U.S. Space Camp wings. In mid-afternoon, they depart for home, ending the most incredible week a youngster can experience.

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AGE: The camper must have completed the **sixth, seventh, or eighth grade** during the 1982-1983 school year. Your present science teacher's signature is required on the registration form.

CAMP SESSIONS: Last summer's Space Camp received international media attention. Coverage by "Good Morning America," National Geographic Society, "Science Digest," New York Times and "That's Incredible," to name a few, has prompted a much heavier demand for the camp than can possibly be accommodated. Since the **camper positions are being filled on a first-come, first-taken basis**, you are strongly advised to complete the forms and send with the camp fee, along with your choice of weeks, as soon as possible. Please select the week carefully, because once a week is filled, it is impossible to add more campers.

The following 14 camp sessions are offered for your selection during 1983. Register early to insure your choice of camp sessions. Selections made on first come-first served basis.

Closed June 5-10	Closed June 12-17	June 19-24
June 26-July 1	July 3-8	July 10-15
July 17-22	July 24-29	July 31-Aug. 5
3 Aug. 7-12	1 Aug. 14-19	2 Aug. 21-26
Aug. 28-Sept. 2	Sept. 4-9	

COST: The cost of camp is \$250 payable in advance with appropriate attached information sheets. Payment may be made with American money order or cashier's check made payable to "Alabama Space and Rocket Center." The fee includes room, board, counselor supervision, use of program equipment, and program handouts.

If cancellation notice is *received* four weeks before the beginning of the registered camp session, 80% of fee will be returned:

- *received* three weeks in advance, 75% of fee returned;
- *received* two weeks in advance, 50% of fee returned;
- *received* one week in advance, 25% of fee returned.

Cancellation received later than one week before the beginning of the registered camp session means total forfeiture of fee.

CHECK-IN: Check-in on Sunday will be from 3 P.M. - 5 P.M. at the new United States Camp dormitory on the grounds of the Space Center. Please present your confirmation card at check-in.

The cost of meals and counselor supervision for early arrival will be at the rate of:

- up to 6 hours a \$20 fee will be charged; after 6 hours, a daily rate of \$60 will be charged.

All early arrival charges are payable four weeks before the beginning of registered camp session.

CLOTHING: The average Alabama summer temperature is 92°.

- shorts (in good taste)
- blue jeans
- blouses/shirts
- swim wear
- walking shoes and/or tennis shoes
- tooth brush/toothpaste
- soap
- comb/brush
- sleep wear
- any needed medication

HEALTH SERVICES: Emergency health services will be provided at a nearby medical facility only if the attached medical form accompanies the camper's registration. **DON'T FORGET TO COMPLETE THE ATTACHED HEALTH INFORMATION SHEET.**

TRANSPORTATION: A camp staff member will be at the airport or bus station to meet the campers who choose this means of travel. The staff member who meets the camper at the airport or bus terminal may be recognized by his Space Center badge.

If there is a transportation problem *upon arrival in Huntsville*, call the U.S. Space Camp at 837-3400. Identify yourself as a Space Camp camper with transportation problems and give your location. **IMPORTANT: DO NOT LEAVE THE BUS TERMINAL OR AIRPORT BUILDING.**

If there is a transportation problem *en route to Huntsville*, call collect to the Space Camp at 205/837-3400. Identify yourself as a Space Camp camper, give your present location, your estimated time of arrival in Huntsville and, if by plane, your new flight number.

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MAIL: The camper may receive mail at the following address: PLEASE PUT THE DATE OF THE CAMP SESSION THAT HE/SHE IS REGISTERED TO ATTEND ON THE ENVELOPE.

NAME
SPACE CAMP CAMPER, DATE REGISTERED
ALABAMA SPACE AND ROCKET CENTER
TRANQUILITY BASE
HUNTSVILLE, ALABAMA 35807

Please allow four to five days for mail delivery if mailed from more than a 100 mile radius from Huntsville.

PHONE CALLS: Campers are involved in many activities in different areas of the Space Center, as well as on tours of other space related centers in the Huntsville area. It is impossible to call a camper to the phone. The Space Center has pay phones that campers may use to phone home during break times each day.

HOUSING: All campers will be housed in the new dormitory building on the property of the Space Center. Counselors will supervise the campers in the dormitory. The following items will be furnished:

2 towels	1 blanket
1 bath cloth	1 pillow
2 sheets	1 pillowcase

MEALS: Meals will be prepared and served by the Food Services Department of the Space Center. Meals will be provided Sunday evening through Friday noon.

GIFT SHOP: The Space Center Gift Shop will be available for campers to visit. In addition to a complete assortment of space merchandise, Space Camp items will be available for purchase. Although the camp fee includes all meals and necessary items, it was the camp's experience last summer that campers spent an average of \$30-\$40 of "spending money."

earth's largest space museum

SNACKS: The Lunch Pad will be available during break times for the campers to visit. Cokes, french fries, and sandwiches are among the items available. Also, snack machines are available.

RULES AND REGULATIONS: The following rules and regulations will be followed during the week:

All Campers —

- will wear shoes at all times.
- are expected to act in a safe and prudent manner at all times.
- are to stay with Team Leader and team.
- are to be present and on time to all activities.
- are not permitted to leave ASRC and/or assigned area without a counselor.
- are not to bother another camper's belongings.
- will follow the directions of all Alabama Space and Rocket Center staff.
- will observe lights out each night at 10:30 P.M. All campers are expected to be in their beds and quiet at this time.
- will carry no radios and/or tape players outside the dormitory. Radios and/or tape players in the dormitory must have ear plugs when in use.

END OF CAMP: Space Camp activities will end Friday at 3 P.M. Parents are welcome to attend graduation activities at 2 P.M. at the Space Center. Campers, unless other arrangements are made with the U.S. Space Camp manager, must have belongings out of the dormitory by 4 P.M. on Friday.

The cost of meals and counselor supervision for departure later than at the designated ending of the camp session will be at the rate of:

- up to 6 hours a \$20 fee will be charged; after 6 hours, a daily rate of \$60 will be charged.

All late-leavers' charges are payable four weeks before the beginning of registered camp session.

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Flip & Debra Schulke/"Science Digest"

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