

# Application

**First 30 Applications will receive a place in the camp. .**

Full Name (print) \_\_\_\_\_

Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

County \_\_\_\_\_ Phone \_\_\_\_\_

T-Shirt Size \_\_\_\_\_ Grade 2013-2014 \_\_\_\_\_

Transportation needed Yes \_\_\_\_\_ No \_\_\_\_\_

Emergency \_\_\_\_\_

Contact \_\_\_\_\_

Emergency \_\_\_\_\_

Phone \_\_\_\_\_

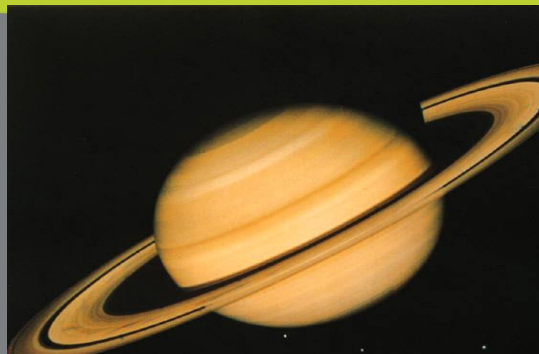
Relationship to \_\_\_\_\_

Student \_\_\_\_\_

Food allergies or restrictions (i.e, vegetarian, sensitivities, or diabetic) \_\_\_\_\_

Medical Conditions/Allergies \_\_\_\_\_

\_\_\_\_\_  
*List people and relationship that are allowed to pick up the child from camp if transportation is not used by student*



## GEAR UP PROMISE NEIGHBORHOOD

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## GEAR UP Summer Space Enrichment Camp.

June 23-26, 2014

9:00-2:30 a.m.

HCTC Technical Campus-Devert Owens Building



## GEAR UP Promise Neighborhood

In conjunction with *Texas Instruments* presents a Summer Enrichment Space Camp for 6<sup>th</sup> and 7<sup>th</sup> Grade Students from Knott and Leslie Counties. Enroll now **Space is limited to 30 students total**

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# Space: The Final Frontier

## Learning about what is out there

GEAR UP Promise Neighborhood in conjunction with Texas Instruments, Knott County School District, Leslie County School District, Berea College Partners for Education , and the Challenger Learning Center of Kentucky have combined their talents to provide a unique opportunity using technology and hands on learning to learn about Outer Space.

Students will meet the following objectives for learning (and fun).

1. Create a large scale model of the Solar System.
2. Analyze data to understand lunar phases, the relationship between light intensity and distance
3. Utilize data in simulations and correlate to our solar system. ,
4. Participate in a mock asteroid impact and develop solutions for survival.
5. Apply skills learned in the camp to an actual space mission and activities at the Challenger Learning Center of Kentucky

### Students will:

- Have access to free transportation from Knott County Central or Leslie County High School
- Have free lunch and snack each day
- Free Experience with the Challenger Learning Center of Kentucky on June 26, 2014
- Have access to technology from Texas Instruments



## SPACE 101 Activities

**Create a Model Solar System**-Students will create a large scale model solar system

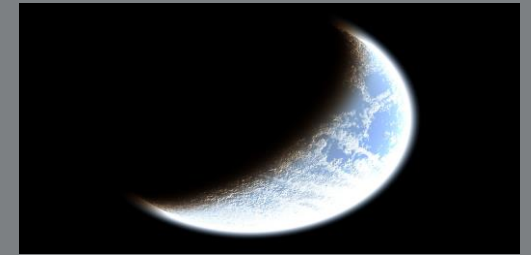
**Light and Distance**-Students will analyze the relationship between light intensity and distance

**Mapping Earth's Magnetic Field**- Students will determine the location of magnetic north, and identifying the students location

**Effects of Mass on a Pendulum's Period**-Students will analyze data, examining effect of mass has on a pendulums period. Students will use this data to correlate information to other planets

**Se Datat**-Students will create a sample polymer spacesuit to see how well it blocks UV Rays, resists heat and stretches

**Kidney Stones, Gravity, and the ISS**- Students will determine the calcium concentration of three different astronauts to evaluate the possible risk of kidney stones and kidney failure



## More Space 101 Activities

**Tilting Earth**-Students will explore the relationship between Earth's Tilt and monthly temperatures

**It's Just a Lunar Phase**- Students will identify patterns in data associated with lunar phases

**Gravity and Objects**- Students will explore how the distance and mass of the planet effect on the gravitational force between the 2 objects

**Earth Impact**- Students will be immersed in a hypothetical asteroid impact issue and develop a possible solution based on prior knowledge from the camp.

**What Makes A Planet**-Students will investigate and know the difference between planets, moons, and asteroids

*Students will show off their skills with a mission and activities at the Challenger Learning Center in Kentucky at Hazard Community and Technical College.*