

# Sign Up For Summer Camp!

If you liked our School Program  
you will love our Summer Camp

**Starts 2nd Week  
Of June! Sign Up Today**



Check Out All the Great Activities and Sign Up Online At:

**AstroCampSummer.org**  
Fills Up Fast!

**One-Week Camps Ages 8-14**  
**Two-Week Camps Ages 12-17**

**800-645-1423**



**ASTROCAMP**



# ASTROCAMP

School Programs/Summer Camps

## Student Log Book

# STEM

Science • Technology • Engineering • Math

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GUIDED  
DISCOVERIES

Image Courtesy of NASA and JPL

**Mission Brief**

**MAP**

Name:

Arrival Date:

School Name:

Dorm Assignment:

Room Number:

Roommates:

Chaperone:

Instructor:

Research Group Name:

## **Resources**

Astrocamp Blog – QR code

The Globe at Night program is a citizen-science campaign to raise public awareness of the impact of light pollution by inviting citizen-scientists to measure their night sky brightness and submit their observations to a website from a computer or smart phone.

**<http://www.globeatnight.org/>**

NASA Space Place: When you're at the Space Place, the universe is the limit.

**<http://spaceplace.nasa.gov/>**

NASA Kids' Club: You can use your science and math skills to explore Mars, construct a fleet of rockets or search for NASA spinoffs in your garage.

**<http://www.nasa.gov/audience/forkids/kidsclub/flash/index.html#.VXnQAqbo9j0>**

Funology: Science is bound to get interactive.

**<http://www.funology.com/>**

Zoom: Hot science and cool ideas.

**<http://pbskids.org/zoom/>**

Junior FIRST® LEGO® League: Are you a LEGO® fiend? Then this is the contest for you. You'll use LEGO® bricks to design and build a moving model; then, you'll assemble a Show Me poster to showcase your solution. For kids age 6 to 9.

**<http://www.usfirst.org/roboticsprograms/jr.fl>**

Perennial Math Tournaments: A virtual math tournament for both teams and individuals. Open to grades three to eight.

**<http://perennialmath.com/tournaments>**

## **Mission Log**

For each day, write down the activities for your research group and record the daily weather conditions.

Day 1 Weather:

Activity 1:

Activity 2:

Night Activity A:

Day 2 Weather:

Activity 1:

Activity 2:

Night Activity B:

Day 3 Weather:

Activity 1:

Activity 2:

Night Activity C:

Day 4 Weather:

Activity 1:

Activity 2:

Night Activity D:

Day 5 Weather:

Activity 1:

Activity 2:

Night Activity E:

## Engineering at Astrocamp

Engineers define problems and design solutions. Many activities at Astrocamp require thinking like an engineer.

Describe a problem you were trying to solve?

What design did you use to solve it?

## STEM Careers

Science, Technology, Engineering, and Math

Career Aisle: Dreaming about what you want to be when you grow up? These videos about jobs in STEM can help you decide.

**<http://knowitall.scetv.org/careerisle/students/elementary/index.cfm>**

TechRocket: Learn programming languages, graphic design in Photoshop, and more!

**<https://www.techrocket.com/>**

Weather Wiz Kids: Meet meteorologist Crystal Wicker. She's put together a website that explains everything about the weather. Find fun facts, games, flashcards and photos, plus get answers to your meteorological questions.

**<http://www.weatherwizkids.com/>**

The Kids' Science Challenge (KSC): Hands-on science activities, games, cool videos, scavenger hunts ... this website has it all. KSC also hosts a free, nationwide science competition for students in grades three to six.

<http://www.kidsciencechallenge.com/#/home>

Design Squad Nation: Design anything your mind might imagine. Through Design Squad challenges, videos and tutorials, you'll discover all there is to know about engineering principles.

**<http://pbskids.org/designsquad/>**

**Additional Thoughts and Observations**

How did your design change through out the class?

Additional Notes:

## **Experimenting at Astrocamp**

Scientists ask questions and construct explanations. Many activities at Astrocamp require thinking like a scientist.

Describe an investigation that you did at Astrocamp and what did you predict would happen?

What did you observe happen?

## **Additional Thoughts and Observations**

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What evidence did you use to explain what you observed?

What follow-up questions did this investigation generate?

## **Adventuring at Astrocamp**

Astronauts often face challenges in space and train to face these.

Describe a challenge you faced at Astrocamp?

What would you tell your friends at home about Astrocamp?

Why was it challenging for you?

Additional Notes:



**Thanks for coming!**

What will you remember most about Astrocamp?

In what ways did you attempt to overcome this challenge?

How did you change or grow through this trip?

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## **Exploring at Astrocamp**

Astrocamp is an opportunity to explore a new environment and the universe.

Describe something you explored outdoors while at Astrocamp?

Compare the outdoor environment at Astrocamp to where you live.

Describe something you observed or learned about space?

Additional Notes: