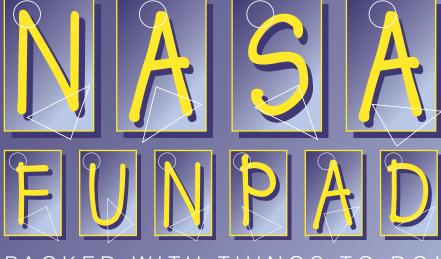
National Aeronautics and Space Administration





PACKED WITH THINGS TO DO!

www.nasa.gov



For more information on NASA and its outreach programs, visit these web sites: http://education.nasa.gov

http://www.nasa.gov/audience/forkids

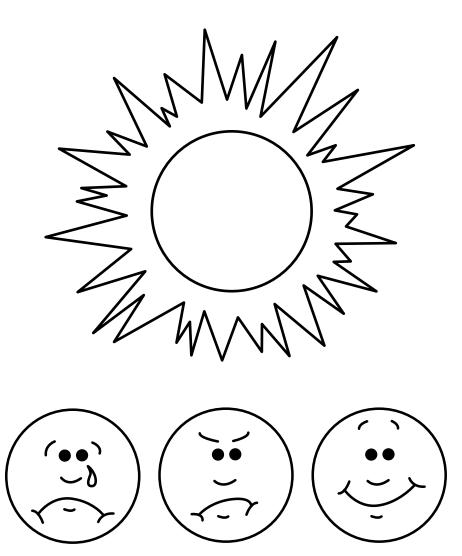
http://stargazers.gsfc.nasa.gov

http://ksnn.larc.nasa.gov

http://kids.msfc.nasa.gov/

DRAW A FACE ON THE SUN

Make it sad, mad or glad!



SAD

MAD

GLAD

FIND A WORD

Search for NASA words



✓ NASA	FLARE	MERCURY	SATURN	STAR
ASTEROID	LAUNCH	MOON	SCIENCE	SUN
COMET	LUNAR	PLANET	SPACE	URANUS
EARTH	MARS	PLUTO	SOLAR	VENUS

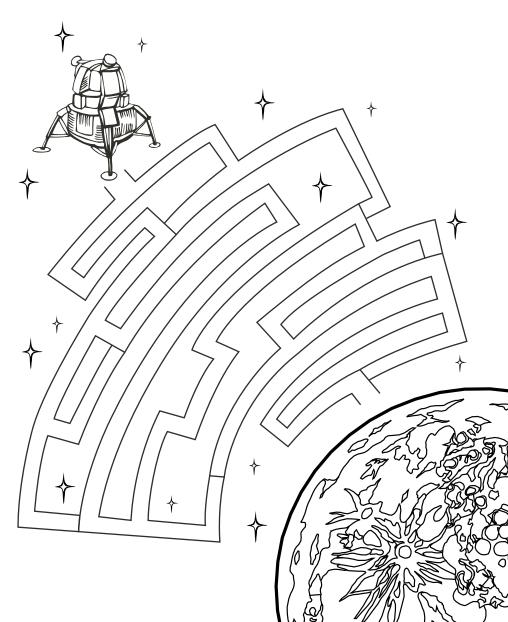
CONNECT THE DOTS

Look at space through this...



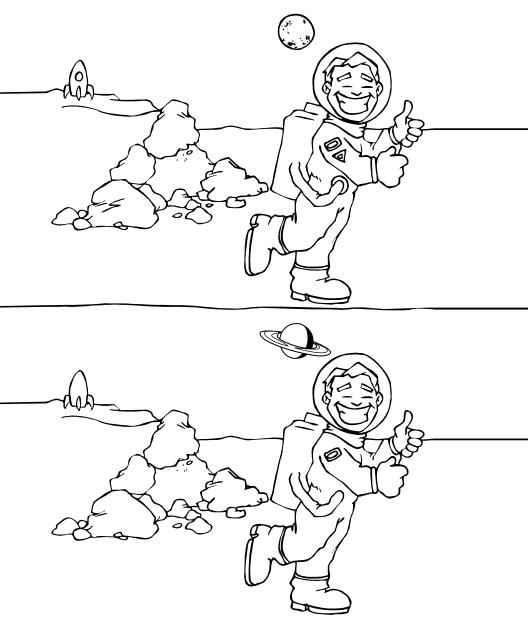
LAND ON THE MOON

Maneuver through the maze for a safe landing



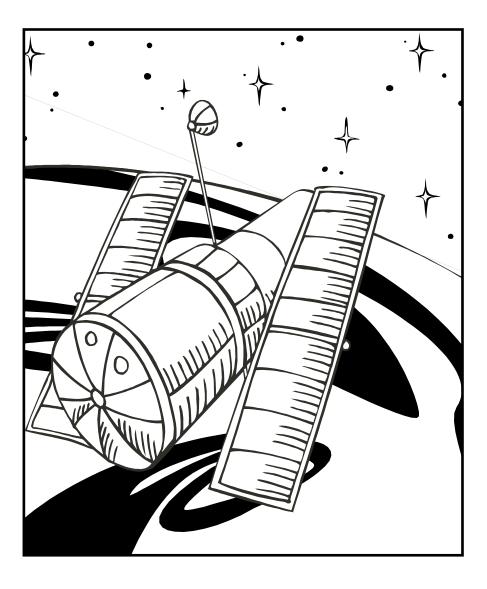
FIND THE DIFFERENCES

Look closely for 6 different things



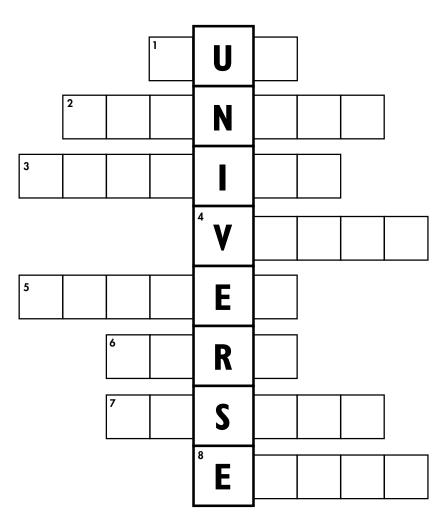
COLOR THE HST

Hubble Space Telescope



SPACE CROSSWORD

Universal appeal



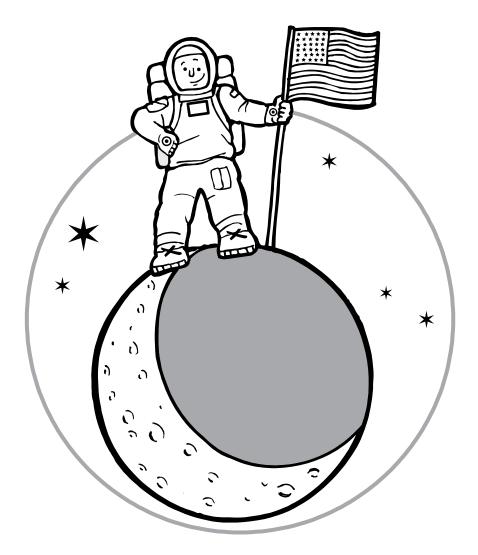
CLUES:

- Our central, brightest star
 Eight _____ revolve around the Sun
- 3. This keeps us on Earth
- 4. Second planet from the Sun
- 5. Launch vehicle
- 6. The "red planet"
- 7. Eight planets make up our solar _____
- 8. Our home planet

FIND THE SHAPES

Where are these shapes?





NAME THE PLANETS

How to remember...

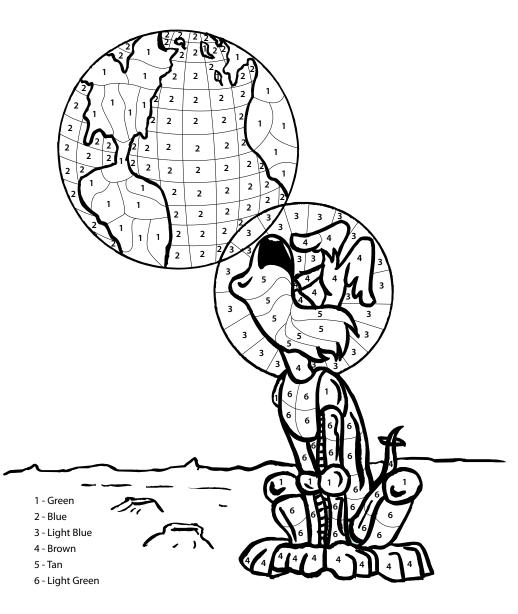


My Very Educated Mother Just Served Us Nachos

Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune

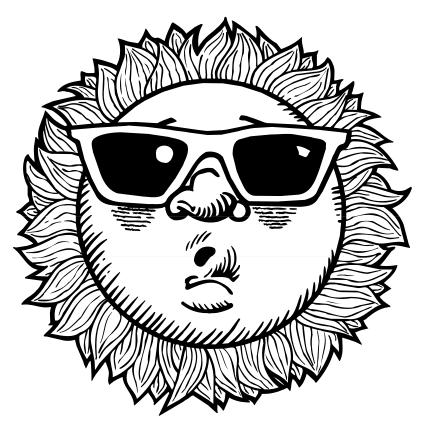
COLOR MY WORLD

Color-by-Number Moon Dog



SUN FUN FACTS

Read the facts and color the Sun



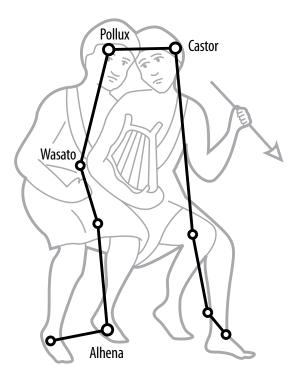
The Sun is the star closest to the Earth so it looks very bright and large, even though it is 93 million miles away.

Energy released by very hot gases in the Sun's center travels out into space and gives Earth its heat and light.

The Sun is the center of our Solar System. All of the planets in the Solar System travel around the Sun in paths called orbits.

GEMINI – THE TWINS

Draw stars over the circles and make a star constellation

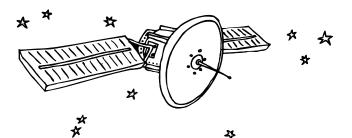


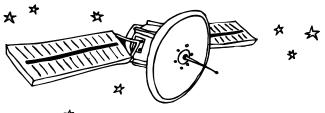
Gemini is easy to find as it is high overhead in mid-winter, above and to the left of Orion. It's two brightest stars — Castor and Pollux — represent the mythological twin brothers of Helen of Troy.

Pollux is the brighter of the twins. It's an orange-giant star that's about 35 light-years from Earth. Castor consists of six stars. This crowded system lies about 50 light-years from Earth.

IDENTICAL SATELLITES?

Which satellite is different?

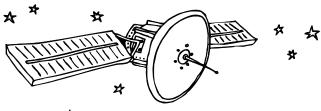






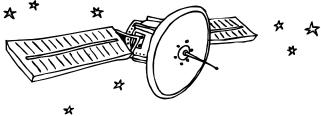


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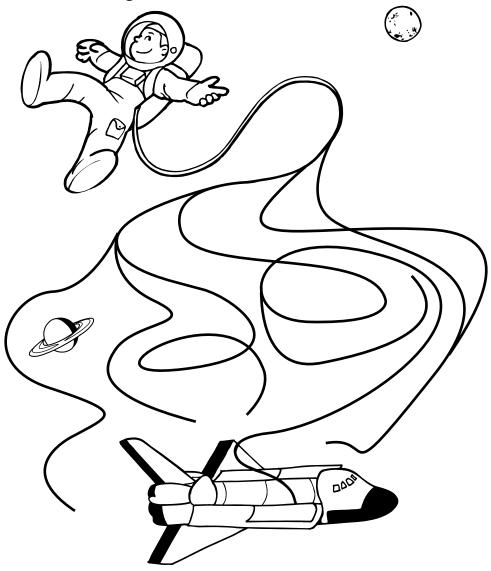






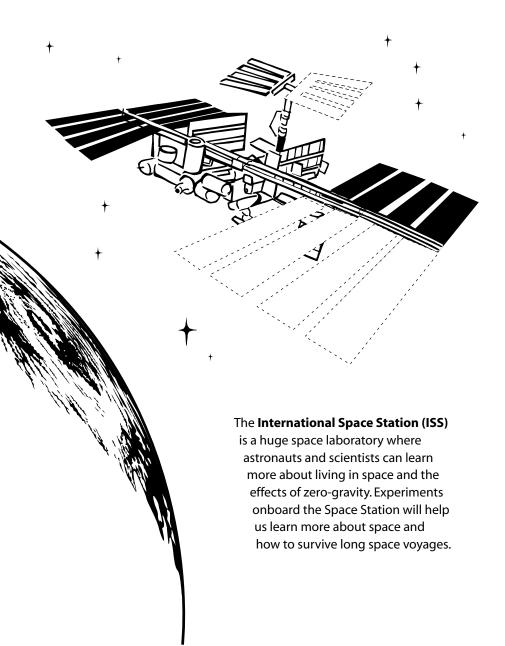
LIFE LINE

Pick the line that will help the astronaut get back to the Shuttle



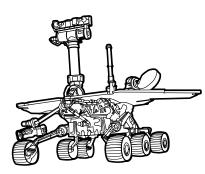
FINISH THE SPACE STATION

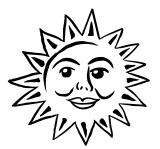
Draw over the dotted lines and color



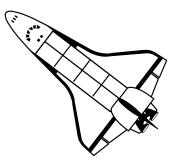
TOGETHER FOREVER

Draw lines between the objects that go together







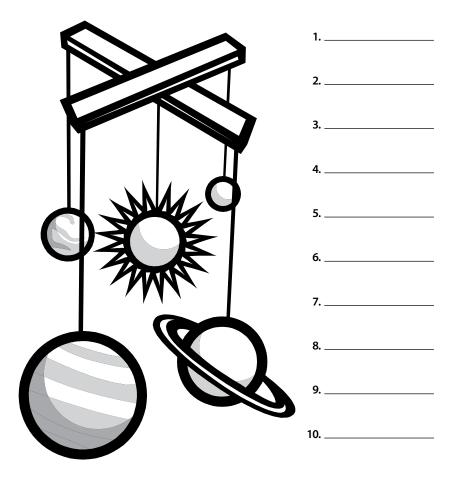






SPELL MORE WORDS

How many words can you spell using the letters in SOLAR SYSTEM?



MISSION PATCH

Connect the Dots

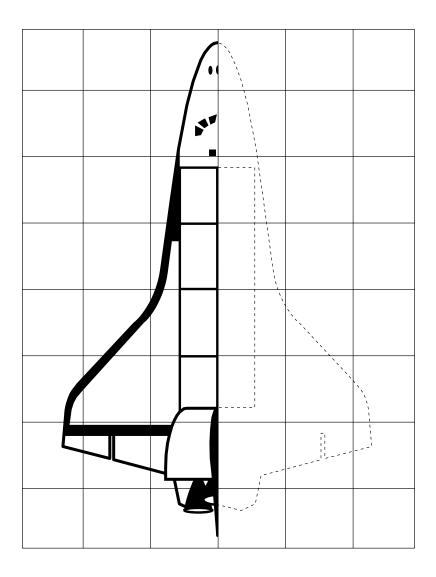


STS-51G Shuttle Mission - Launched in 1985

The crew included French, Saudi Arabian and American astronauts. Three communications satellites were deployed (MORELOS-A for Mexico, ARABSAT-A for the Arab Satellite Communications Organization, and TELSTAR-3D for the USA). Communication satellites are used for many purposes on Earth including TV, radio, telephone, and pagers.

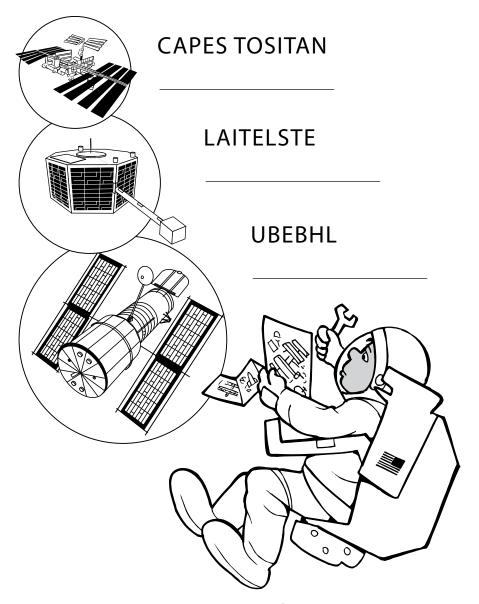
FINISH THE SHUTTLE

Use the dotted lines and boxes to finish the other half of the Shuttle.



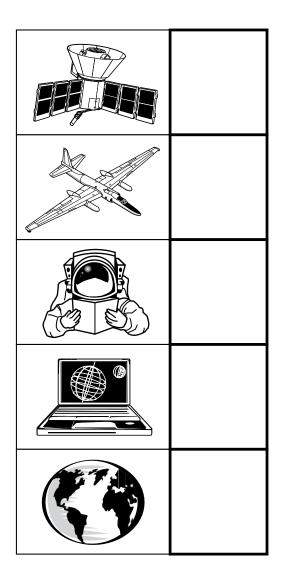
UNSCRAMBLE THE WORDS

Help the astronaut work on these things



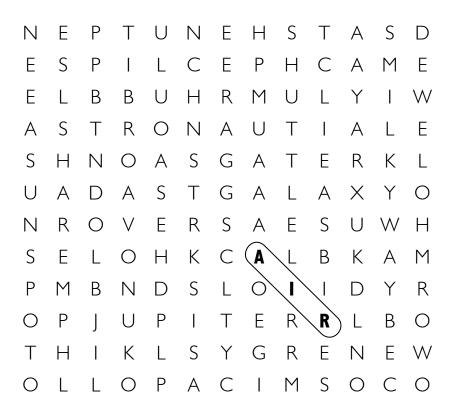
WHAT DOES NASA EXPLORE?

Find the answer by writing the first letter of each object in the box beside the picture



FIND A WORD

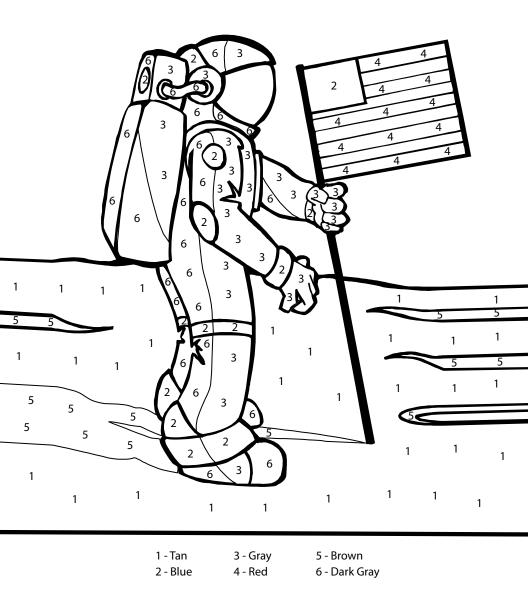
Search for NASA words



	ENER OV		
🗸 AIR	ENERGY	MILKY WAY	SHUTTLE
APOLLO	GALAXY	NEBULA	SKY
ASTRONAUT	GALILEO	NEPTUNE	STAR
ATLAS	HUBBLE	NOVA	SUNSPOT
BLACKHOLE	JUPITER	ORBIT	WORMHOLE
COSMIC	MACH	ROVER	XRAY
ECLIPSE	MASS	SCALE	

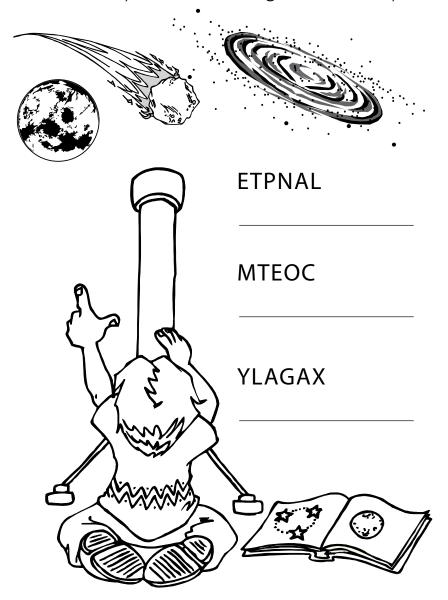
ASTRONAUT COLOR BY NUMBER

Help the astronaut place the flag



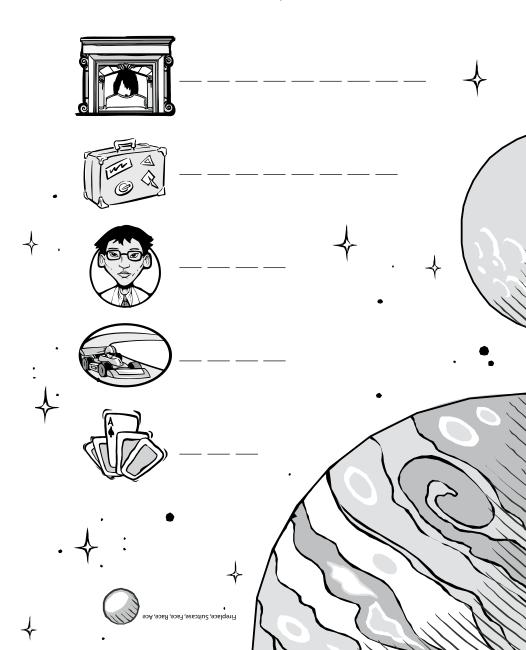
UNSCRAMBLE THE WORDS

What can you see through a telescope?



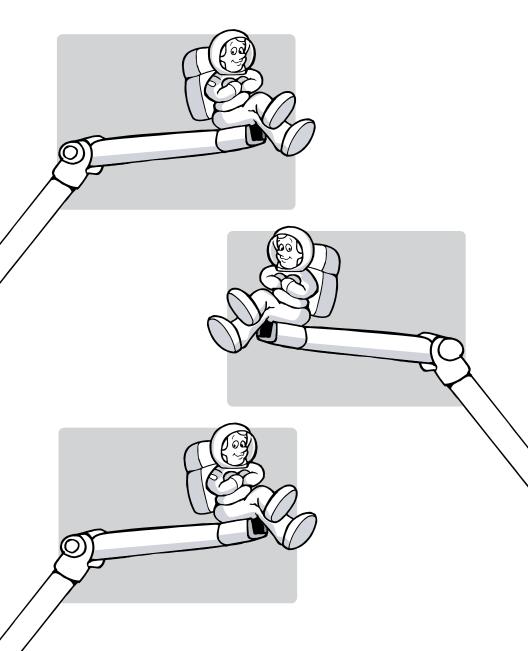
RHYME TIME

What other words rhyme with SPACE?



WHICH ONE IS DIFFERENT?

Find the astronaut that is not the same



FIND THESE SHAPES

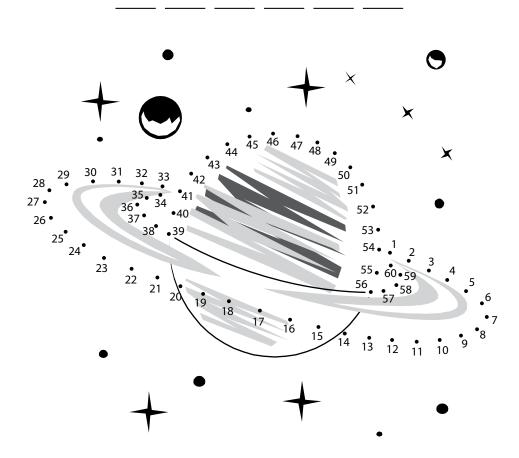
Circle the objects in the picture





CONNECT THE DOTS

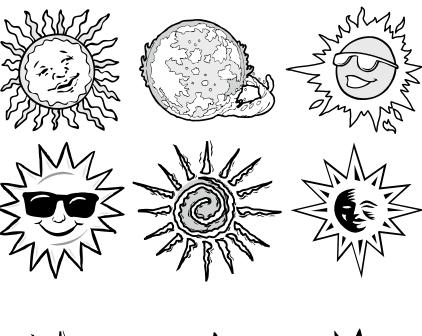
What planet is this?



This planet is sixth from the Sun and the second-largest planet in our solar system. When the Pioneer and Voyager spacecraft missions visited the ringed planet, we found out that the rings are a complex system of many individual rings, each made up of countless pieces of ice and rock.

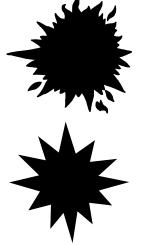
SUN SHADOW MATCH

Match each Sun to its shadow





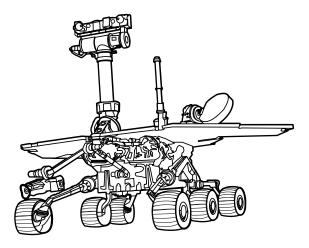


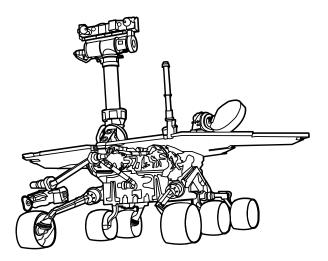




WHAT IS MISSING?

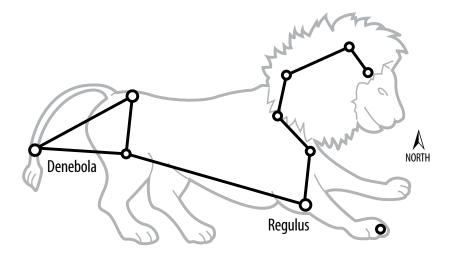
The Mars Rover on top is correct. Draw in the missing pieces on the other Rover to make it complete.





LEO – THE LION

Draw stars over the circles and make a star constellation



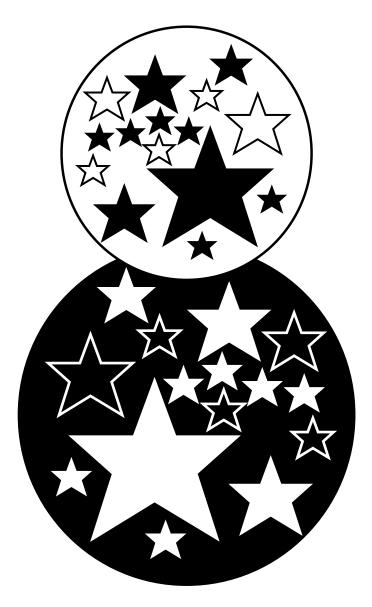
The zodiacal constellation Leo, the lion, is one of a handful of constellations that really does look like its namesake. Look for Leo high in south sky in April and May.

Leo's brightest star is blue-white Regulus, one of the brightest stars in the night sky. Once Regulus climbs into the sky, look to its left — toward the north — for a group of stars forming a backward question mark. These stars outline Leo's head and mane.

About two hours later, look low in the east sky for Leo's tail — a white star named Denebola — an Arabic name that means "tail of the lion."

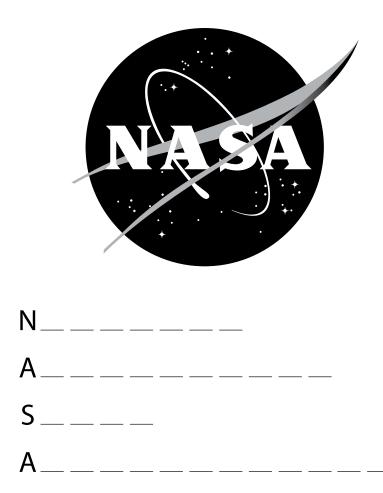
STAR COUNT

How many stars can you count?





What does NASA mean?



Since 1958, NASA has accomplished many great scientific and technological feats in air and space. Our exploration of space has taught us to view Earth, ourselves, and the universe in a new way. NASA is a leading force in scientific research, sparking public interest in aerospace exploration, and developing new technologies.

IN-SPACE COLORING

Science experiments on the International Space Station



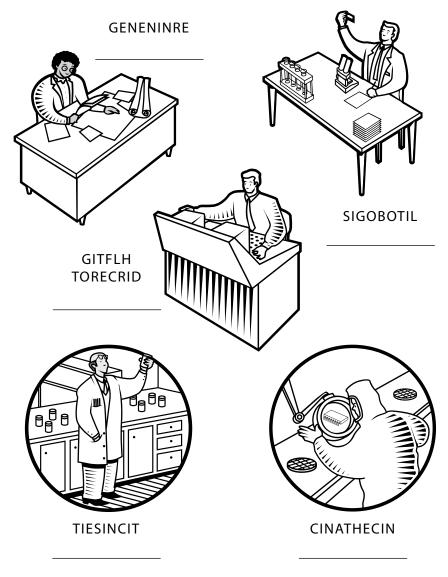
The International Space Station is being used to study how the human body adapts and responds to long-term space flight.

These studies include how bones and muscles respond and how physical exercise can changes those responses.

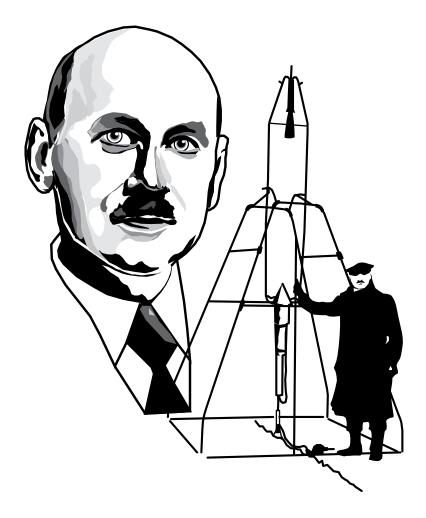
Studies are also being performed on the effects of radiation from the Sun on the human body.

NASA AT WORK

Can you guess what these people do? Unscramble the clues.



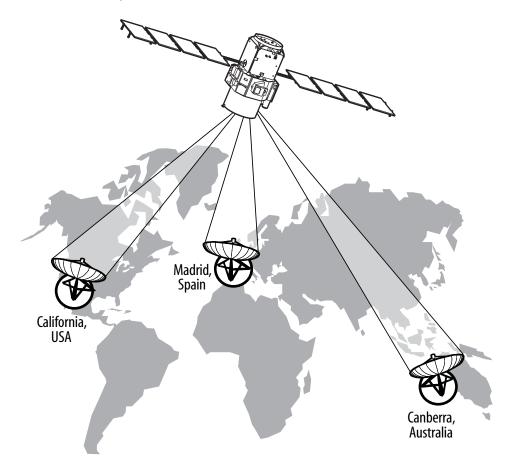
DR. ROBERT GODDARD



Dr. Robert H. Goddard successfully launched the first liquid fueled rocket in Auburn, Massachusetts on March 16, 1926. NASA Goddard Space Flight Center in Greenbelt, Maryland is named after him and for his pioneering spirit in rocketry.

DEEP SPACE NETWORK

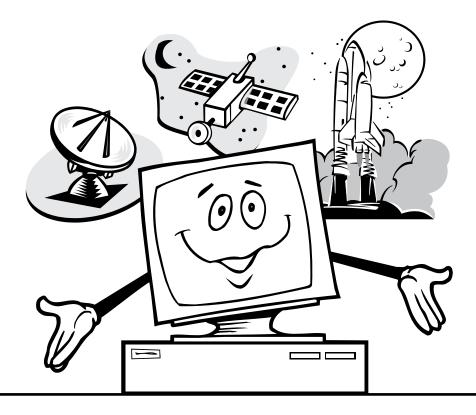
Space antennas at three sites



This world map shows the three locations of the Deep Space Network's antennas. As Earth rotates on its axis, a spacecraft out in space will be able to "see" at least one set of antennas. Each of the three locations has several antennas for tracking different spacecraft at the same time.

COMPUTER WORK

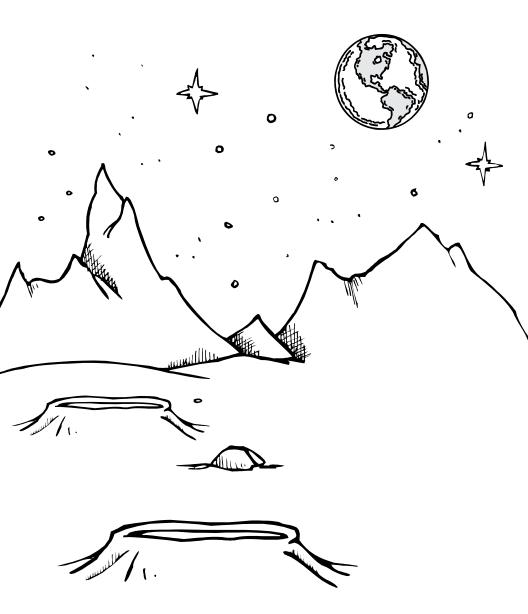
Computers are very important tools for studying space.



Computers are used to write programs that control spacecraft and their science instruments. They are used to help test instruments before they are launched and for communication. Computers are used to study space data and to produce the amazing images that we see from space. They are also used to help pass this information on to the world through the internet.

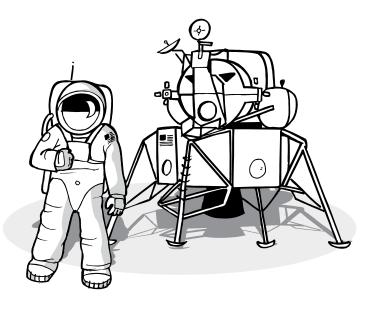
LIVING ON THE MOON

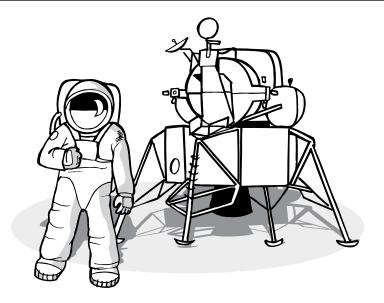
Draw a picture of a lunar base



WHAT IS DIFFERENT?

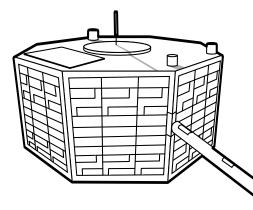
Find and circle 10 different things





IMPORTANT SATELLITES

Color the ST5 and SDO satellites



Space Technology 5

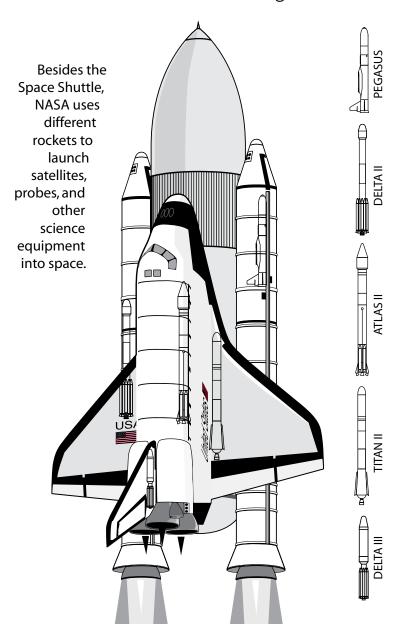
(ST5) micro-sats flew within the magnetosphere that surrounds our planet like a shield. The collected data has been returned to scientists on the ground for analysis.

Solar Dynamics Observatory

(SDO) was launched in 2010. It is helping us understand the source of the Sun's energy. It is providing the scientific understanding that will help us improve the quality of forecasts of solar activity.

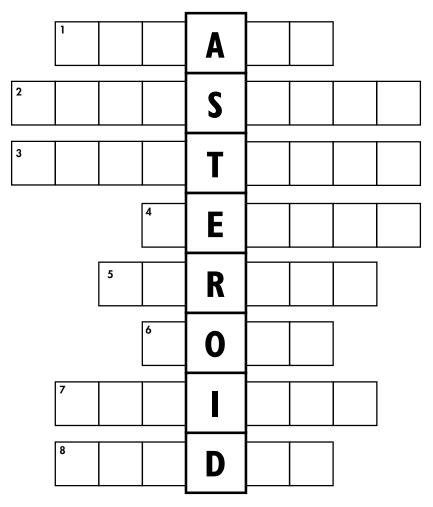
HIDDEN ROCKETS

Find and circle 5 rockets that are shown on the right



CROSSING WORDS

Space rocks



CLUES:

- 1. The Milky Way is one
- 2. Hubble Space _
- 3. Atoms are made of protons, neutrons, and _____
- 4. Clouds of gas and dust
- 5. _____ Borealis, the Northern Lights
- 6. This orbits the Earth
- 7. The largest planet, fifth from the Sun
- 8. Type of spacecraft which comes to rest on the surface of a planet or moon

SERVICING MISSION

STS-109 Patch

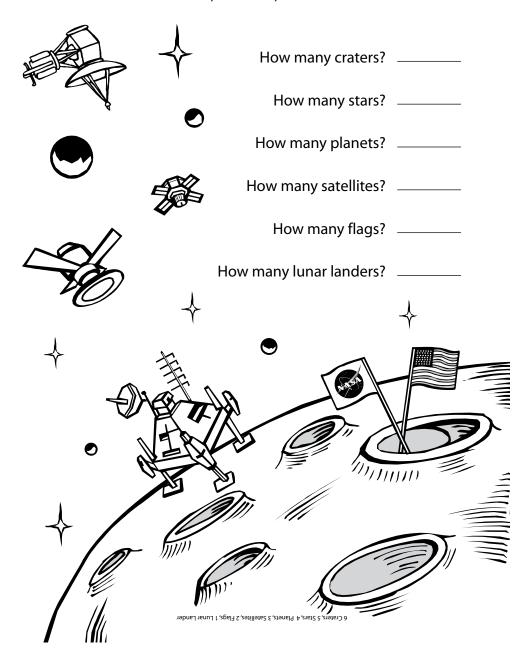


Hubble Space Telescope Servicing Mission

The STS-109 crew successfully completed the servicing of the Hubble Space Telescope. The upgrades left Hubble with a new power unit, a new camera and new solar arrays. This was the fourth shuttle mission dedicated to servicing Hubble.

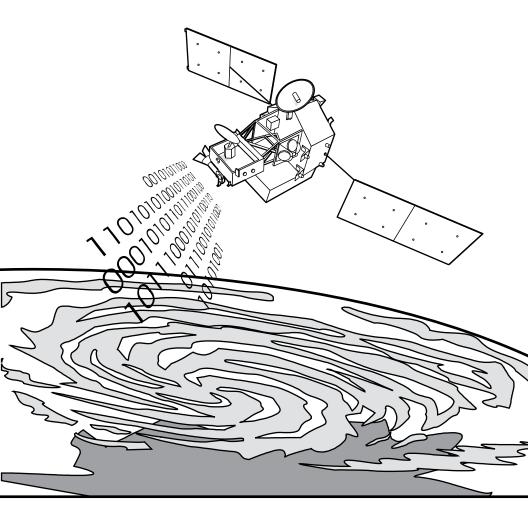
COUNT DOWN

How many can you count?



NASA SATELLITES

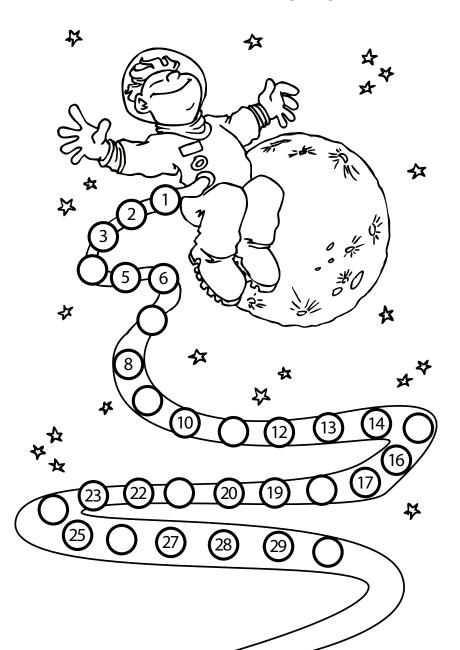
Helping to forecast weather



Did you know that improved hurricane forecasts, made possible by NASA satellites such as the Tropical Rainfall Measuring Mission (TRMM), can save lives and help early warning evacuation efforts?

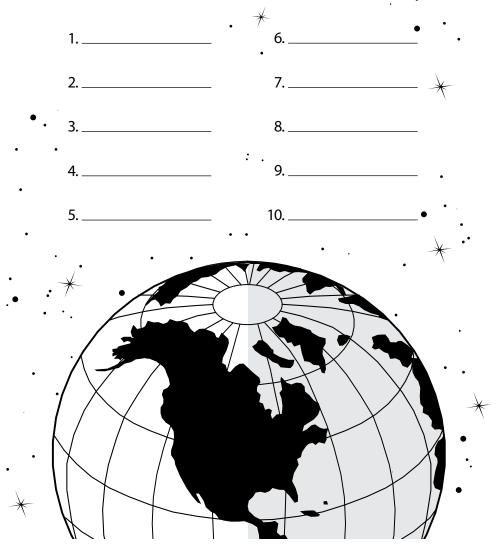
FILL IN THE NUMBERS

Write in the missing digits



WORDS WITHIN WORDS

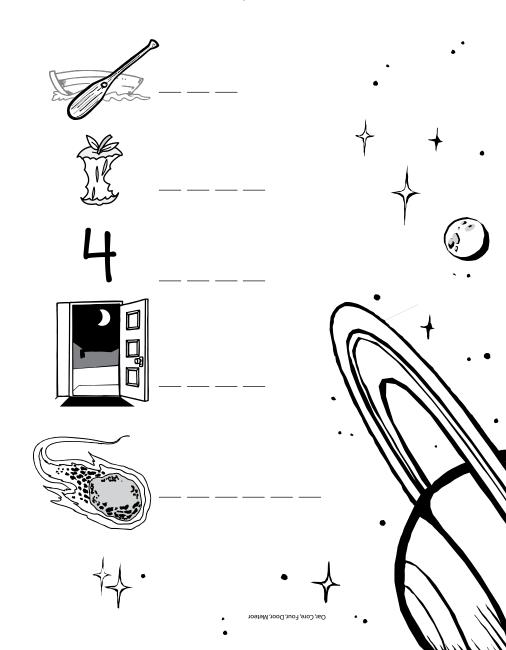
How many words can you spell using the letters in PLANET EARTH?



Neat, Plan, Ear, Treat, Net, Tea, Heart, Part, Ant, Near, Nap, Hat

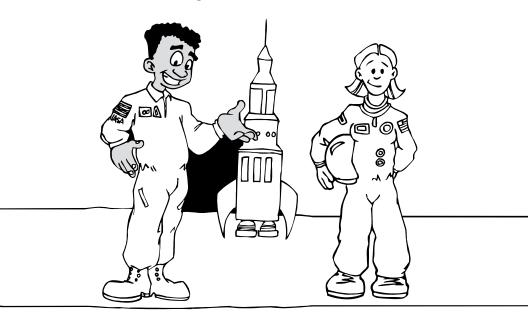
RHYME TIME

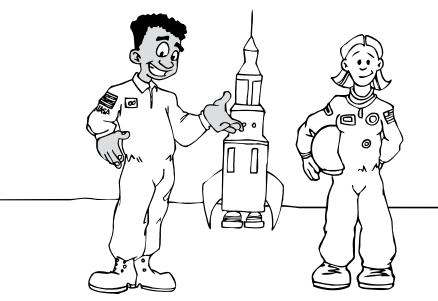
What other words rhyme with EXPLORE?



WHAT IS THE DIFFERENCE?

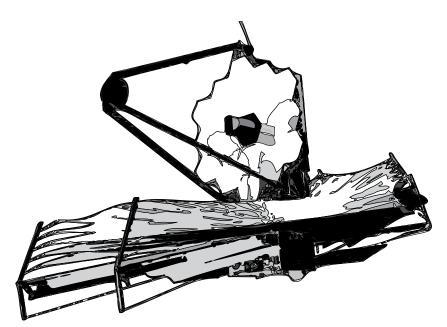
Find 8 things that are not the same





FUTURE SPACE TELESCOPE

James Webb Space Telescope (JWST)

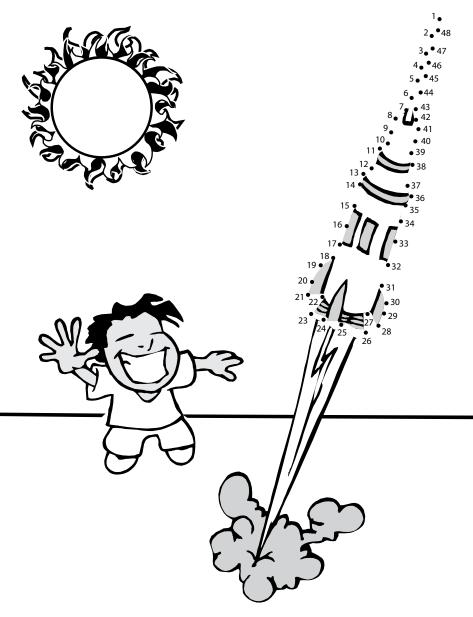




The James Webb Space Telescope (JWST) will take the place of the very popular Hubble Space Telescope. JWST is scheduled to launch in the year 2011. A million miles from Earth, the telescope will drift through space, peering back to the time when new stars and developing galaxies first began to illuminate the Universe.

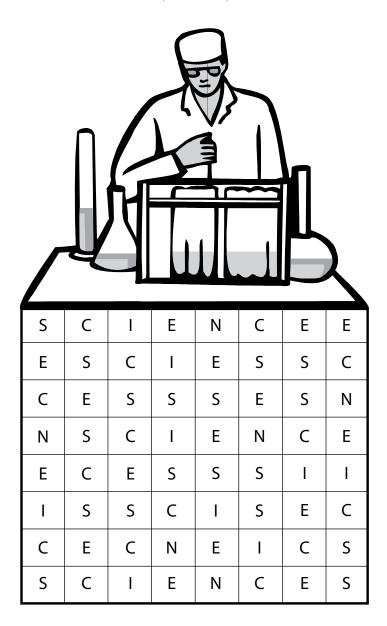
ROCKET MAN

Draw lines to connect the dots



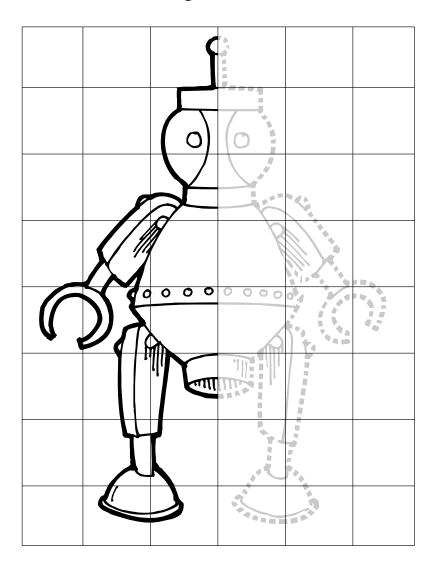
FIND THE SCIENCE

How many can you find?



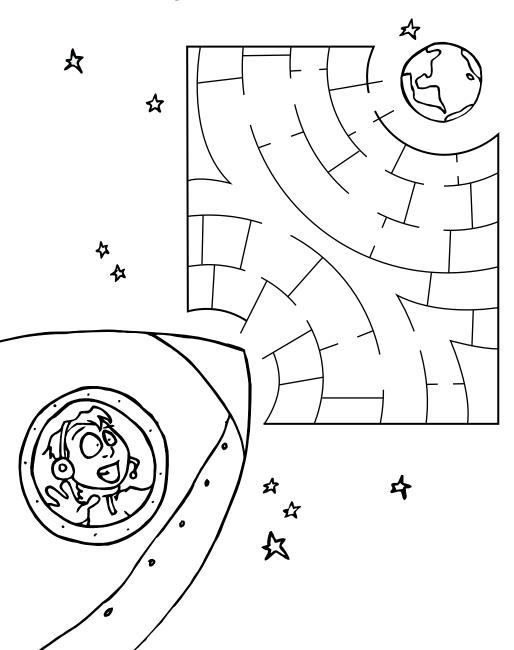
ROBOTICS

Draw in the lines to finish building this robot



BACK TO EARTH

Bring our astronaut home



FUTURE EXPLORATION

New Discoveries



Future space tools will bring us amazing discoveries about the Universe and our own Solar System. Are there planets like Earth around other stars? Is there life on other planets and moons? What lies at the edge of the Universe? By using our creativity and imagination, we can build tools that may one day help solve these mysteries and many more!



For more information on NASA and its outreach programs, visit these web sites: http://education.nasa.gov

http://www.nasa.gov/audience/forkids http://stargazers.gsfc.nasa.gov http://ksnn.larc.nasa.gov http://kids.msfc.nasa.gov/ National Aeronautics and Space Administration





www.nasa.gov NP 2007-10-855-GSFC