

# Space Exploration Word Search

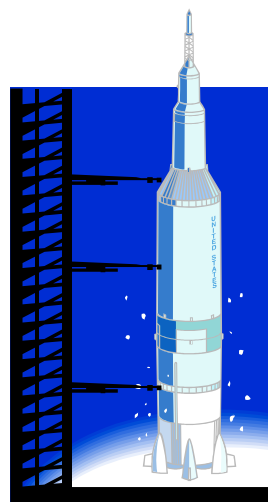
(In your "exploration," check for words spelled backwards.)

G N O T L R Y U F S Y S L E A  
L P O N E T E L D R S A A M V  
L I B I I L I V C S T T U S F  
M W G V T G E O O X E E N R E  
B Y A H H A U S T R N L C A A  
Q R Y T T N T F C J A L H T R  
G L Q Y T T X S R O L I U S T  
R F U D N M W X R M P T E M H  
N F O Z N H T F S O E E A T J  
C W D I O R E T S A C R U T W  
N L I F T O F F D H S K S A E  
T M I V T M R T I B R O E C B  
Q G D O N O O M S Q O V A T E  
B L A S T L R Y T D P P N L H  
V A M R K M S J G F S Z K V X

Find the following words:

Asteroid  
Blast  
Countdown  
Earth  
Flight  
Gravity  
Launch  
Liftoff  
Light

Mars  
Moon  
Orbit  
Planets  
Rocket  
Rover  
Satellite  
Space  
Stars



Station  
Telescope

# Space Exploration Word Search

(In your "exploration," check for words spelled backwards.)



Find the following words:

Asteroid

Blast

Countdown

Earth

Flight

Gravity

Launch

Liftoff

Light

Mars

Moon

Orbit

Planets

Rocket

Rover

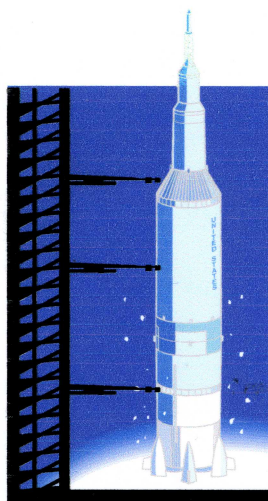
Satellite

Space

Stars

Station

Telescope



# Astronaut Scramble

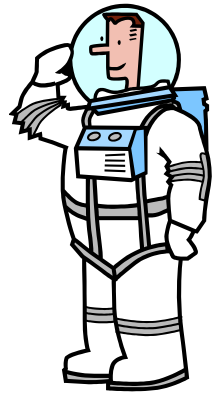
C O S M I C Z A E M L S U O D  
X M U E S E Z P O C K R T E I  
S A N S T E N A L P A U N W S  
A R E U B F Y Y P N L P V J C  
I S V E A H E M U P N C S E O  
Y G T W Q N O S O O Q Q B N V  
T R D E R I M W I O V I N U E  
G F U U R A S T R O N A U T R  
R A O C I O A A J S F E M P Y  
B J L S R R I U V A J C A E A  
E X U A O E P D Y T O Z N N G  
G N E L X I M F S U E A R T H  
Q E P K T Y R C S R A T S H Q  
L X N E F W F B G N T O H Z R  
E Y R D N X W M N K J N E F P

Find the following words:

Asteroids  
Astronaut  
Cosmic  
Discovery  
Earth  
Exploration  
Galaxy

Journey  
Jupiter  
Mars  
Mercury  
Moon  
Neptune  
Planets

Pluto  
Saturn  
Space  
Stars  
Sun  
Uranus  
Venus

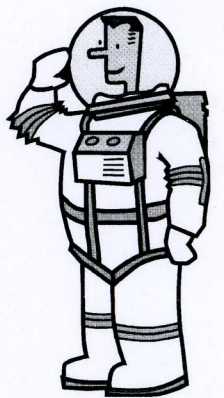


# Astronaut Scramble



Find the following words:

- |             |         |        |
|-------------|---------|--------|
| Asteroids   | Journey | Pluto  |
| Astronaut   | Jupiter | Saturn |
| Cosmic      | Mars    | Space  |
| Discovery   | Mercury | Stars  |
| Earth       | Moon    | Sun    |
| Exploration | Neptune | Uranus |
| Galaxy      | Planets | Venus  |



# The Earth in 3-D

## Materials:

Earth template – 1 sheet per Cub Scout

Scissors

Glue

Markers/Crayons

What do the people in space see when they are orbiting the earth? They see the earth!

## Instructions:

1. Cut out the template pieces carefully so that 2 “earths” are still connected where they touch. After cutting, each Cub Scout should have 2 sets of 2 earths.

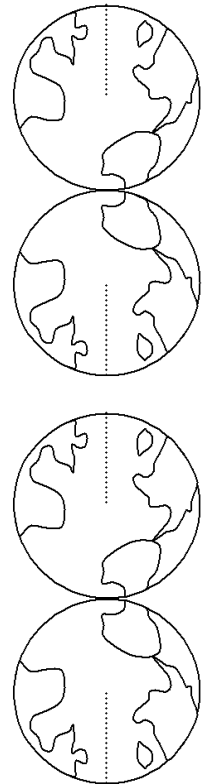
2. Color the “earths” – with the oceans blue and the land green (or whatever colors they choose).

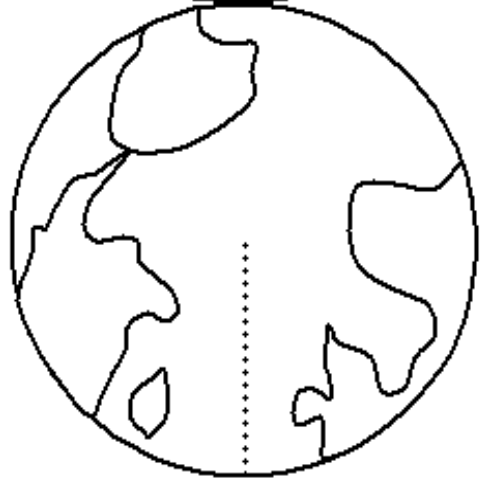
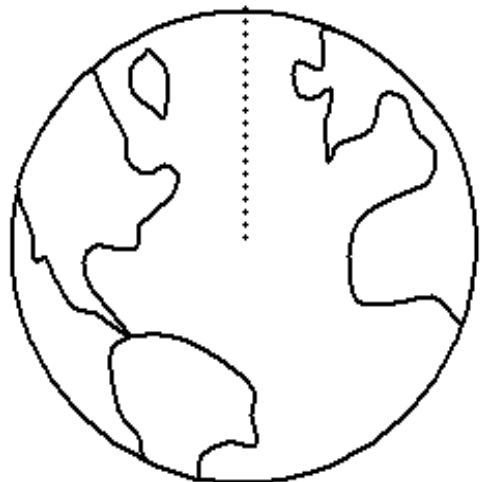
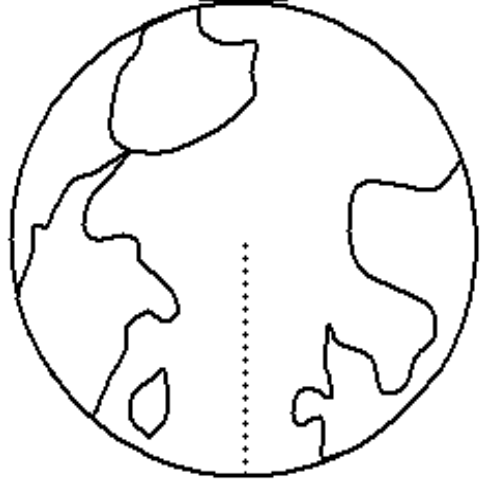
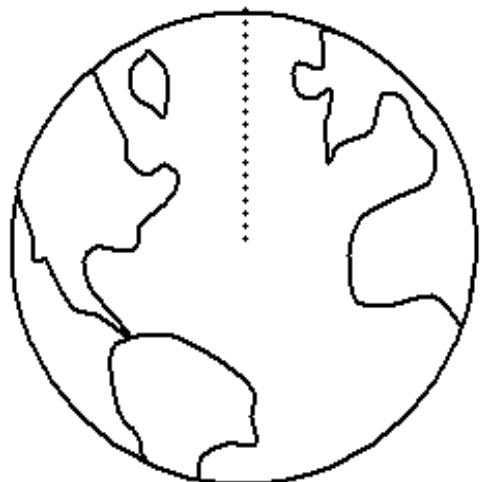
3. Fold the “earths” with the colored side out towards each other so using the paper holding them together as a hinge. Match up the dotted lines.

4. Glue each set of “earths” together.

5. Once the glue has dried a bit, cut through both of the sets of “earths” ONLY on the dotted line. Do not cut farther into the “earths” than the length of the dotted lines.

6. Slide the 2 sets of “earths” together on the cutting lines. This now makes the 3-D earth!





# Keep the Satellite Up

## Materials:

One large beach ball per group of 20 Cub Scouts

## Instructions:

Scientists rely on gravity and inertia to keep satellites in orbit. Your task is to keep the satellite from falling to earth.

Cub Scouts make a circle and try to keep the beach ball (satellite) up in the air for as many hits as possible. Challenge the Cub Scouts to keep the satellite in the air for 20 orbits (hits) or 30 orbits (hits) or even a higher number of orbits.



# 'Round the Moon



## **Materials:**

Masking tape for starting and turn lines (if needed)

## **Instructions:**

1. Divide Cub Scouts into teams of 6-8 Cub Scouts.
2. All the teams line up at one end of the room beside a chair or behind a line. This chair or starting line is the "base".
3. Each Cub Scout places his hands on the waist of the Cub Scout in front of him so that each team forms a "rocket".
4. Another chair or mark is placed at the far end of the room opposite each team; this other chair or mark is the moon for each team.
5. When the leader calls 'Go', the teams run the length of the room, round their 'moon', and back.
6. As they pass the start (or base), the 'rockets' drop the tail section (or one Cub Scout) each time they pass the start and the Cub Scout sits down there one by one, until finally the 'nose cone' (or first Cub Scout on the team rocket) returns home.
7. The first team to be sitting down is the winner.
8. If the Cub Scouts let go of their teammate's waist, the rocket disintegrates and the rocket has to start over.



# Closing Thought

**Materials:**

None

**Cubmaster or den leader:**

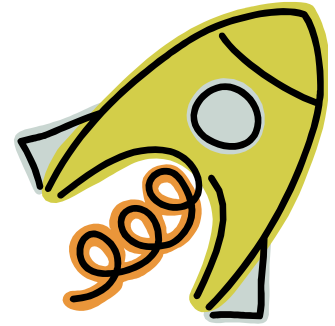
Would you like to pilot an airplane or a starship, or walk on the moon or float through space, or be part of a space station crew? You may be doing some of these things one day. We can't be sure, but one thing is certain, the world will need good men and women in the future.

We can be sure we will fill that need if we remember to follow the Scout Oath and Scout Law. Before we leave today, let's give this some thought as we stand and say the Scout Oath together.

## Take Flight Opening

### Materials:

Cards with pictures of a plane, a bird, a kite and a rocket ship with Cub Scout lines on back.



**Cub Scout #1** (holds plane): Every day, thousands of planes “take flight” to deliver people and things all over the world.

**Cub Scout #2** (holds bird): You can see many different birds “take flight,” making the world a more beautiful place.

**Cub Scout #3** (holds kite): In the windy skies above, watch your own kite “take flight.” It’s a time to relax and enjoy a wonderful part of nature.

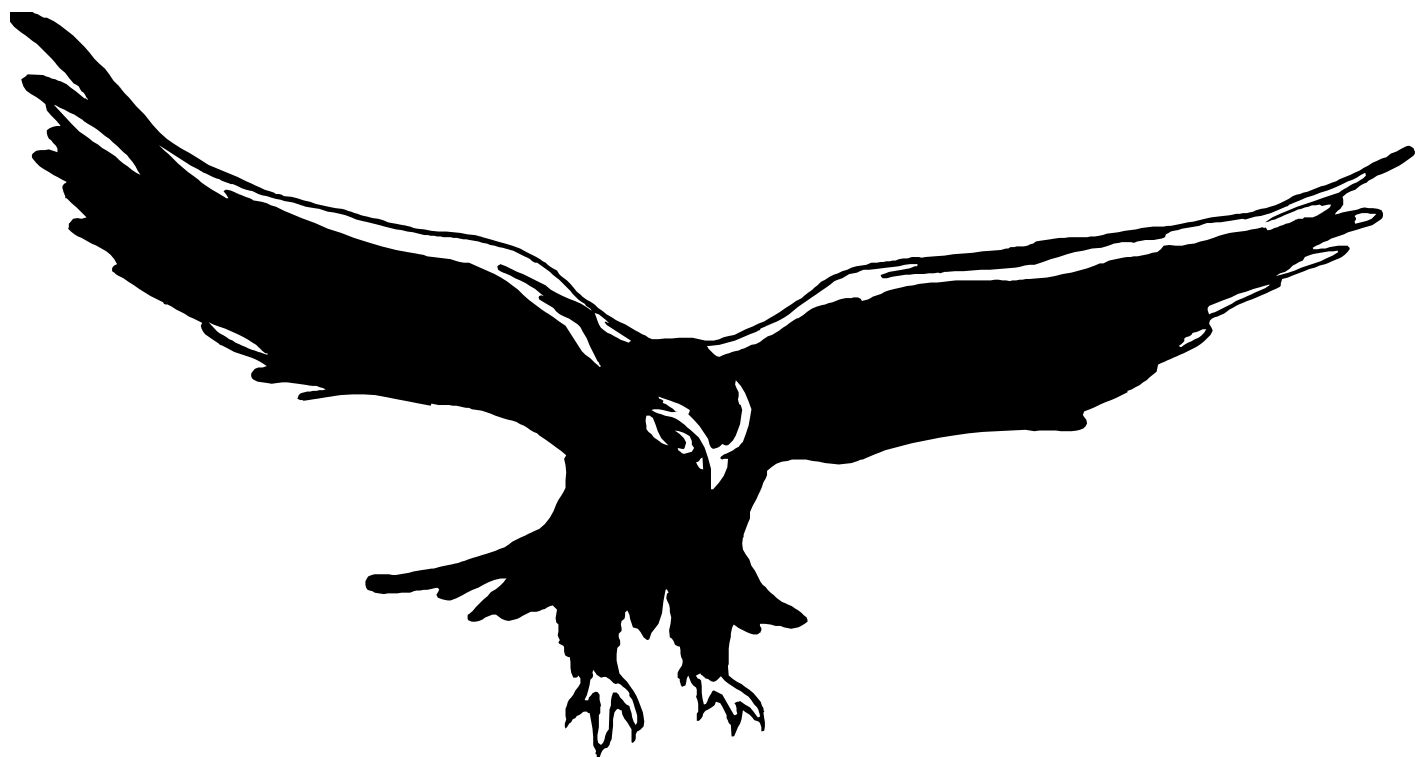
**Cub Scout #4** (holds rocket ship): It’s so exciting to see rocket ships “take flight” and think about exploring the universe.

**Cubmaster or den leader:** How do you feel as our national flag “takes flight”? Please stand and join me in saluting our flag while repeating the Pledge of Allegiance with me.



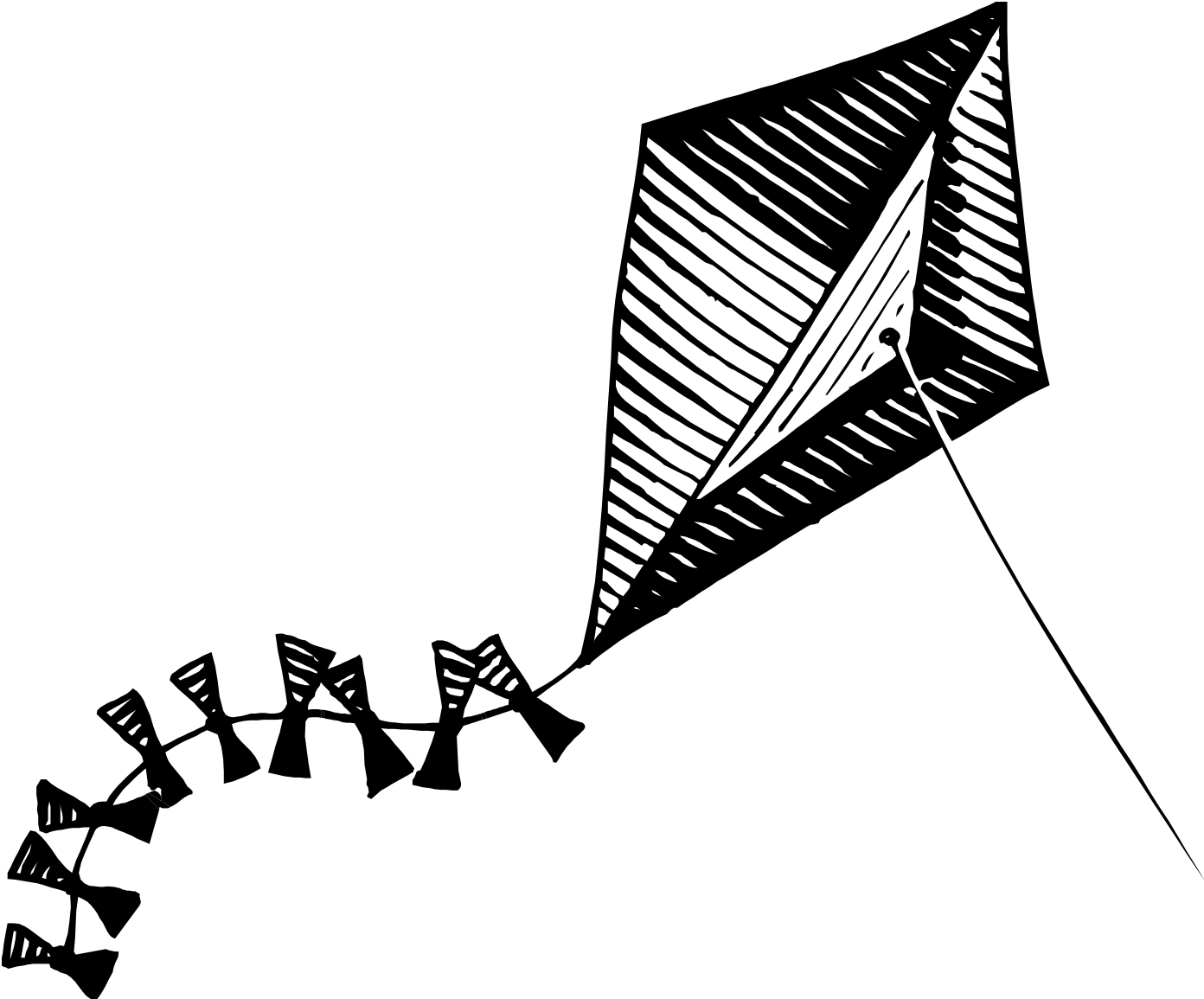
**Cub Scout #1:**

**Every day, thousands of planes “take flight” to deliver people and things all over the world.**



**Cub Scout #2:**

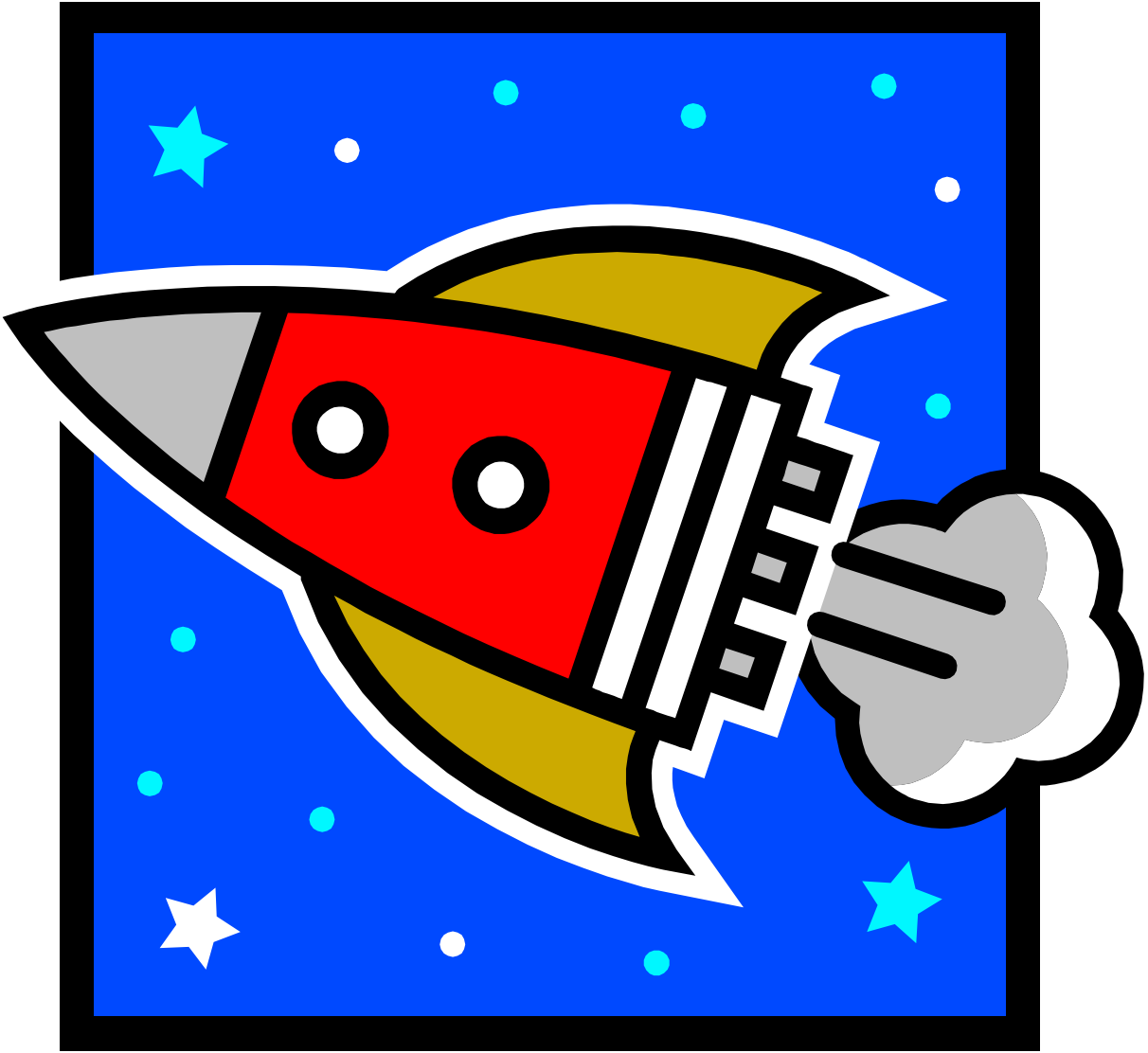
**You can see many different birds “take flight,” making the world a more beautiful place.**



### **Cub Scout #3:**

**In the windy skies above, watch your own kite “take flight.” It’s a time to relax and enjoy a wonderful part of nature.**





**Cub Scout #4:**

**It's so exciting to see rocket ships "take flight" and think about exploring the universe.**

## Flying Transformations

**Materials:** None

**Instructions:**

Divide the boys into teams. The object of the game is for each team of Cub Scouts to form as quickly as possible into a human representation of the flying objects the leader names.

**To play:** Call out the name of a flying object; boys arrange themselves into that shape. For example, if you say “helicopter,” the boys must decide how to form rotor blades, landing skids, and a cockpit. Try the following objects: kite, bird, Wright brothers’ biplane, rocket, space shuttle, jet, zeppelin, balloon, etc

**Variation for starting:** You could first start with easier objects having to do with space – the moon, the sun, an asteroid, a star, etc. Until they get the hang of it and then do the flying objects mentioned above.



## Keep the Satellite Up

### Materials:

One large beach ball per group of 20 Cub Scouts

### Instructions:

Scientists rely on gravity and inertia to keep satellites in orbit. Your task is to keep the satellite from falling to earth.

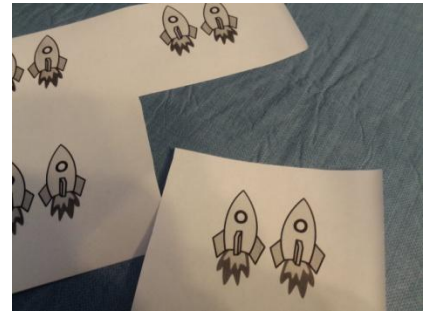
Cub Scouts make a circle and try to keep the beach ball (satellite) up in the air for as many hits as possible. Challenge the Cub Scouts to keep the satellite in the air for 20 orbits (hits) or 30 orbits (hits) or even a higher number of orbits.



# Blast Off Rockets

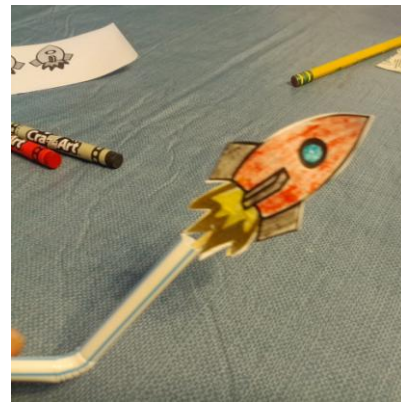
## Materials:

- ¼ Rocket template sheet – each Cub Scout should have a front and back of a rocket
- Scissors
- Crayons/Markers
- Bendable straws (1 per Cub Scout)
- Glue
- Toothpick (1 per Cub Scout)

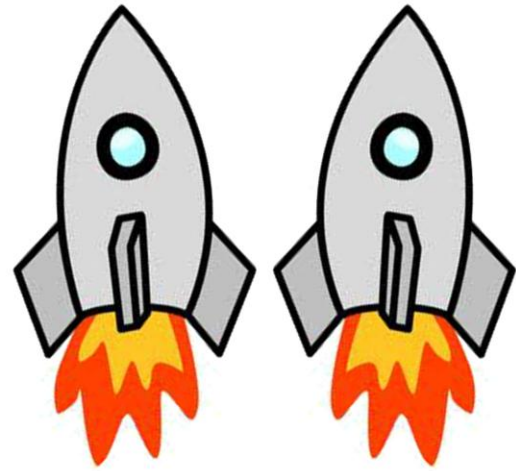
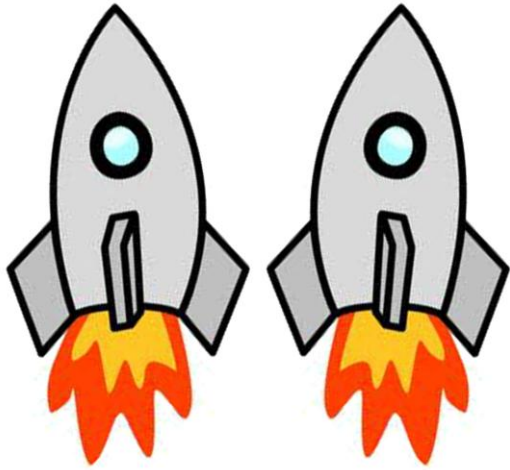
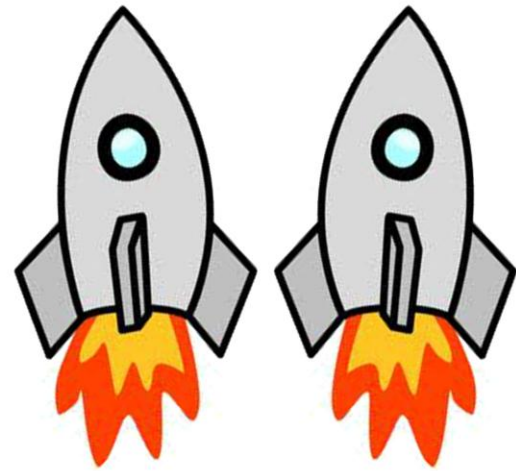
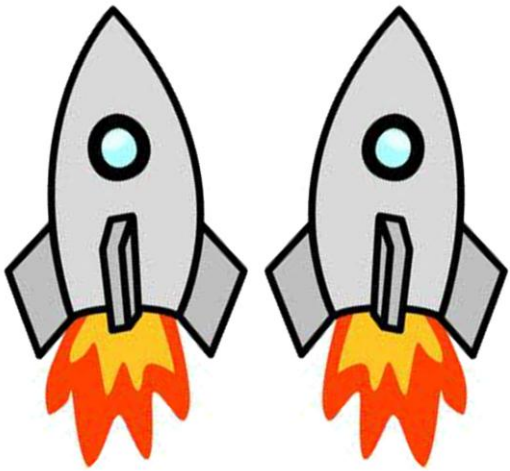


## Instructions:

1. With crayons or markers, color the rockets.
2. Cut out the rockets from the paper.



3. Glue the toothpick in between the front and back of the rocket with most (2/3rds) of the toothpick sticking out the bottom of the rocket.
4. To launch the rocket, put the toothpick inside the short end of the bendable straw. Make sure that you are not pointing the straw at anyone and then take a deep breath and blow into the long end of the straw. The rocket will fly out of the straw. How far can your rocket fly?



# North Star Examples Closing

## Materials:

None

## Cubmaster:

For thousands of years, mankind has known that the North Star (a star that's part of the Little Dipper constellation) is fixed in the sky. It does not move. Seamen have used it and other heavenly bodies to guide their ships. Shepherds and travelers used it to make sure they were going the right direction. Even today, stars are important in the navigation for ships, planes and spacecraft.

Cub Scouts don't often use stars to find their way, but sometimes we need friends who are constant and fixed like the North Star. Constant and fixed friends are those that are honest and helpful and loyal friends who are always trying to do their best. These friends are also polite and kind and courteous. Can you think of any friends that you have that are like the North Star?

