Acknowledgments

Thanks to the High Flyers Alphabet Activity Book team for their invaluable suggestions and fortitude to see this book come to fruition. Thanks also to the teachers who provided our team with ideas and feedback and, most important, the NASA Headquarters Aeronautics Research Mission Directorate for funding this outreach activity.

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Introduction

The National Aeronautics and Space Administration (NASA) conducts research for aeronautics, too! This High Flyers Alphabet Activity book has been created to introduce some basic aeronautics terms for children attending kindergarten through second grade. We want them to realize that many aeronautics terms and concepts surround them every day. These activities show how an alphabet letter can be related to an aeronautics concept and basic aeronautics terms. The child is invited to look at each of the letters, trace the letter, and print the letter in the space provided. We hope they enjoy doing the activities, too. Answers to the activities can be found on the last few pages of this book.

About NASA

NASA is world-renowned for its research contributions to aircraft engines. We are world class in providing advanced technologies to U.S. industry, making engines more reliable and efficient. We partner with industry to create more economical air travel for the public, using engines that pollute less and are quiet to operate. We also pursue breakthrough technologies that will allow us, one day, to travel above the speed of sound using supersonic and hypersonic air vehicles.

Please visit our Web sites to learn more about NASA aeropropulsion, aeronautics research, and outreach activities.

NASA
http://www.nasa.gov/

NASA Aeronautics Research Mission Directorate
http://www.aeronautics.nasa.gov/

NASA Aeronautics Education
http://www.aeronautics.nasa.gov/education.htm

NASA Education for Students
http://www.nasa.gov/audience/forstudents/index.html
# National Math and Science Standards

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aircraft

Draw a line to match each aircraft to its shadow.
Connect the dots and color.
Count the pictures hidden in the **clouds**.

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down

Follow the line and help the skydiver guide the parachute down to the target.
engine

Each aircraft has a different type of engine. The engines move the aircraft through the air at different speeds. A passenger jet flies through the air at 550 miles per hour. A smaller private aircraft flies through the air at 410 miles per hour. A fighter jet flies through the air at 1,500 miles per hour.

The chart below shows the speed at which each aircraft flies. Use the graph below to complete the activity on the next page.
There was an airplane race. Draw a line from the trophy to the aircraft in the order it finished.

1st place
1,500 mph

2nd place
550 mph

3rd place
410 mph
fly

Circle the pictures of the things that fly.

How many did you circle? ____
Materials Needed
Scissors
Cellophane tape
One penny

Instructions
1. Cut out the wing and fuselage patterns that can be found on the back cover of this book.
2. Carefully cut on the wing slot line located on the fuselage.
3. Slide the wing into the slot, making sure that the wing center line is within the fuselage.
4. Tape the wing to the fuselage.
5. Tape the penny to the nose of the fuselage for balance.
6. Bend both elevons upward.
7. Gently toss the glider.
Add the helicopters in each group.

Military

[Diagram of helicopters]

____ + ____ = ___

Coast Guard

[Diagram of helicopters]

____ + ____ = ___

Traffic Reporter

[Diagram of helicopters]

____ + ____ = ___

Emergency Rescue

[Diagram of helicopters]

____ + ____ = ___
in

Draw a line to where the passengers, luggage, and engine go into the airplane.
Circle the aircraft that is not a jet.
kite

Color which type of day would be best for flying a kite.

sunny

snowy

windy

rainy
landing

The aircraft below are landing. Draw a line to match each aircraft to where it would land.
mechanic

Connect the dots to see what type of tools a mechanic uses.
The NASA Insignia (more commonly referred to as the “meatball”) reflects the history and tradition of the Agency and is used in all of the Agency’s day-to-day communications materials. Designed in 1959 by former NASA employee James Modarelli of NASA Glenn Research Center, the NASA Insignia contains the following elements: the sphere represents a planet, the stars represent space, the vector represents aeronautics, and the orbit represents space travel.
oxygen mask

Does the pilot have his oxygen mask on or off? Under each picture, circle the word on or off.

How many pilots have their oxygen masks on? ____

How many pilots have their oxygen masks off? ____
A pilot uses instruments in the cockpit to fly. Color the circles green, the squares red, the triangles yellow, and the rectangles blue.
Your family is going on a trip far away. Under each picture is the time it will take each vehicle to get there. Circle the vehicle that will get you there the quickest.

- Ship: 2 weeks
- Airplane: 2 hours
- Train: 1 day
- Truck: 3 days
runway

Help the airplane find the runway through the maze.

Start here
sky

Draw and color at least three things that can fly in the sky.
takeoff

Write the number under the matching picture.

1. Loading
2. **Takeoff**
3. Flying
4. Landing
up

Circle the object in each group that does not go up in the air.
To complete the entire **view** of the airplane, draw the other half.
Trace the different wing shapes.

Wright brothers

F-18 (Blue Angels)

Concorde

Boeing 747

Paper airplane
NASA uses test aircraft and space vehicles called **X-planes**. X-plane means experimental (X)-plane. Be an engineer and design your own X-plane in the space below. Give it an X-number and write it under your plane.
Would you like to take an airplane ride? Whom would you take with you? Draw their faces in the windows. Don’t forget your face!

Where would you go on your airplane ride? ________________________________
Count the number of airplanes in each group as they zoom by.

How many airplanes did you count? ___
Aa  aircraft

Aa  aircraft

Bb  balloon

Bb  balloon

Cc  clouds

Cc  clouds
Dd  down
Dd  down
Dd  down

Ee  engine
Ee  engine

Ff  fly
Ff  fly
Gg glider

Hh helicopters

Ii in
Mm mechanic
Mm mechanic

Nn NASA
Nn NASA

Oo oxygen
Oo oxygen
Pp pilot
Pp pilot

Qq quick
Qq quick

Rr runway
Rr runway
Ss  sky
Ss  sky

Tt  takeoff
Tt  takeoff

Uu  up
Uu  up
Vv view

Vv view

Ww wing

Ww wing

Xx X-plane

Xx X-plane
Yy you

Zz zoom
Airplane Parts Definitions

Wing
- generates lift

Cockpit
- command and control

Fuselage (body)
- holds parts together
- carries passengers, cargo, and fuel

Engine
- generates thrust

Rudder
- changes yaw (side to side)

Elevator
- changes pitch (up and down)

Aileron
- changes roll (rotates body)
Aeronautics
The science of making and flying aircraft.

Aileron
A hinged flap on the back edge of the wing of an airplane; the flap is moved up or down to keep the airplane steady or make a turn in the air (refer to picture on page 40).

Aircraft
1. An item that you can fly or float through the air.
2. Any machine for flying.

Airplane
An aircraft that is kept up by the force of air upon its wings and driven forward by a jet engine or propeller.

Balloon
A large bag or rubber sack that is filled with air or other gases causing it to rise and float in the air.

Clouds
White or gray objects that float in the air and contain tiny water drops.

Cockpit
A place where the pilot or crew sits to control the aircraft (refer to picture on page 40).

Elevator
A part of the tail of an airplane that can be moved to make the airplane go up or down (refer to picture on page 40).

Elevon
A control surface on an airplane that combines the functions of an elevator and an aileron.

Engine
A machine, such as an aircraft engine, that uses energy of some kind to create motion and do work (refer to picture on page 40).

Engineer
A person trained and skilled in the design, construction, and use of engines, machines, or other devices of industry and everyday life.

Experimental
Having to do with a test or series of tests to find out if something is correct.
**Fuselage**
The main structural body of an aircraft to which the wings and tail are attached (refer to picture on page 40).

**Glider**
An aircraft that has no engine and is carried along by air currents.

**Helicopter**
A kind of aircraft that has a large propeller fixed on top and no wings; it can be flown backward, forward, straight up, and down.

**Instrument**
A mechanical or electronic measuring device that gives pilots information they need to fly their airplanes safely.

**Jet**
An airplane that moves very quickly and is jet propelled.

**Kite**
A tethered glider that is lifted by the wind.

**Landing**
The act of coming down after flying.

**Loading**
Putting something to be carried into or upon an aircraft.

**Luggage**
The suitcases, trunks, baggage, and belongings of a passenger.

**Mechanic**
1. A worker skilled in making, using, or repairing machines, vehicles, and tools.
2. A person who repairs and maintains aircraft.

**Oxygen mask**
A mask placed over the mouth and nose and through which oxygen is supplied from an attached storage tank.

**Parachute**
A large cloth device that opens up like an umbrella and is used for slowing down a person or thing dropping from an airplane.

**Passenger**
A person traveling in an airplane but not helping to operate it.
Pilot
A person who operates an airplane, balloon, or other aircraft.

Propeller
A set of blades driven by an engine that pull or push an airplane through the air.

Runway
A surface on the ground specifically used for aircraft takeoffs and landings.

Rudder
A hinged, vertical flap at the rear of an aircraft; used for steering (refer to picture on page 40).

Seaplane
Any airplane designed to land on or take off from water.

Takeoff
The act of rising from the ground, especially in an aircraft.

Vehicle
An object that moves people, such as an automobile, bicycle, or aircraft.

View
A way of seeing or looking at something.

Wing
The part of an airplane that produces lift (refer to picture on page 40).

X-plane
A special vehicle designed for experimental flight tests.

Source definitions:
http://www.dictionary.com


Little Explorers Picture Dictionary from EnchantedLearning.com
Aa

Bb

Cc

Dd

Ee

Ff

Gg

Assemble Glider

Hh

Ii

44
Does the pilot have his oxygen mask on or off? Under each picture, circle the word on or off.

How many pilots have their oxygen masks on? 3
How many pilots have their oxygen masks off? 3

脱贫致富

13:15
Your own drawings here.

How many airplanes did you count? 14
Congratulations on completing the
High Flyers Alphabet Activity Book
You have earned your wings as an honorary NASA pilot.

______________________________

______________________________

______________________________

______________________________

______________________________

Print your name on the lines above