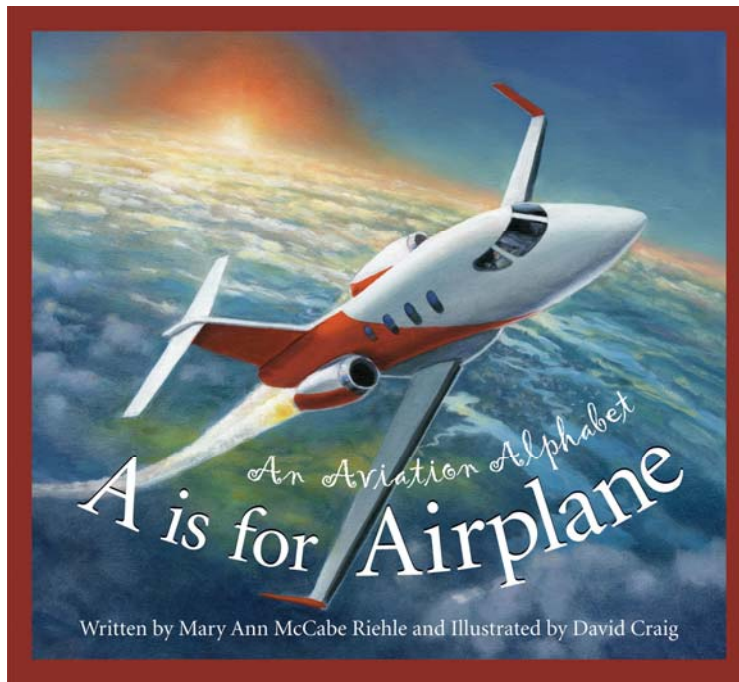


Teacher's Guide



A is for Airplane: An Aviation Alphabet

Author: Mary Ann McCabe Riehle
Illustrator: David Craig

Guide written by Cheryl Grinn

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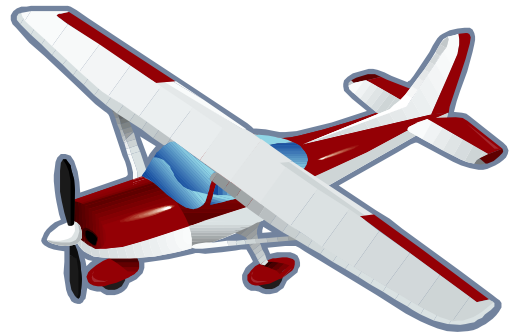
**Sleeping Bear Press
310 N. Main St., Suite 300
Chelsea, MI 48118
800-487-2323**

www.sleepingbearpress.com

A is for Airplane Crossword

All of the answers needed to solve this crossword can be found in the book *A is for Airplane*.

1. A _____
2. I _____
3. R _____
4. P _____
5. L _____
6. A _____
7. N _____
8. E _____



1. Navy pilots are known as the Blue _____
2. He tried to fly too close to the sun _____
3. Helicopters don't need a _____ to take off and land
4. The person who flies a plane is called a _____
5. NASA can _____ a rocket into space
6. _____ traffic controllers
7. Airplanes are made quieter to meet _____ standards
8. We live on the planet _____



A is for Airplane

WHAT'S MY JOB?



Learning about all types of flying machines can be fun when you read the book *A is for Airplane*. It takes many people to make a passenger's flight successful.

Write the title of the job of each person described below.

1. I fly the plane. I am a _____
2. I make sure the plane is a clean. I am a _____
3. I make sure you know the safety rules. I am a _____
4. I take your suitcase by the check-in counter. I am a _____
5. I refuel the plane. I am part of the _____
6. I make sure your plane takes off and lands safely. I work in the _____

Choose one of the jobs above that you would like to do and explain why!

A is for Airplane

Planes from A to Z

Learn about many types of planes in the book *A is for Airplane*. You will not only learn about planes but also about the people who made history in airplanes.

Put the following aircraft in alphabetical order.

dirigible	airplane	jet	
helicopter	space shuttle	glider	
space station	rocket	biplane	
	float plane		

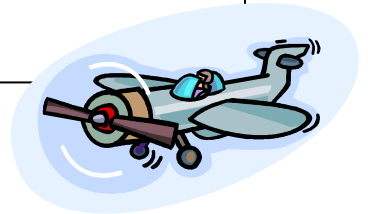
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Famous Flyers!

Learn about many famous people who contributed to the history of the airplane and flying in the book *A is for Airplane*.

Use the word box to match the person with their claim to fame.

Chuck Yeager	Otto Lilienthal	Igor Sikorsky
Icarus	Wright brothers	Amelia Earhart
Tuskegee Airmen		



1. First to fly faster than the speed of sound _____
2. Character in mythology who flew too close to the sun _____
3. First woman to fly solo across the Atlantic Ocean _____
4. Expert with gliders _____
5. Built the first helicopter _____
6. First black military airmen _____
7. Made a famous flight in Kitty Hawk, North Carolina _____

Fast and Far Math

A is for Airplane

Discover many different types of aircraft and the various speeds they fly as you read *A is for Airplane*.

Solve these airplane related problems.

1. An airplane leaves Detroit and travels to Phoenix. The distance is about 1,700 miles. If the plane flies 500 miles per hour, how long will the trip take? _____

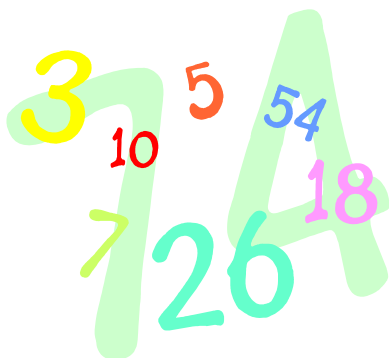
2. If a plane flies 550 miles an hour and you fly for 5 hours, how many miles have you traveled? _____

3. Plane A flies 550 miles an hour for 2 hours. Plane B flies 350 miles an hour for 3 hours. Which plane flies the farthest? _____

4. One yellow plane flew 225 miles per hour. It flew 6 hours to its destination and back home again in one day. How many miles did it fly roundtrip?

5. If you could choose one destination to fly to, where would you go?

Calculate the distance and the time it would take you to make the trip.



A is for Airplane

Which Plane Am I?

Learn the differences between many types of aircraft as you read *A is for Airplane*.

Match the aircraft from the box below with the description of the planes below.

helicopter	jumbo jet	float plane	blimp
glider	rocket	space shuttle	

1. I can fly 400 people at one time _____
2. I have my rotor on my roof _____
3. I fly without an engine _____
4. I take astronauts to the Space Station _____
5. You can find me flying over a football stadium, often carrying an advertisement _____
6. I can land on water _____
7. I am launched into space _____

What is your favorite type of aircraft? _____
Explain _____

A is for Airplane

HAVE YOU FLOWN?

Enjoy learning about airplanes of many styles in the wonderful book *A is for Airplane*.

Survey 30 children to find out how many times they have flown on an airplane.

Question- How many times have you flown on an airplane?

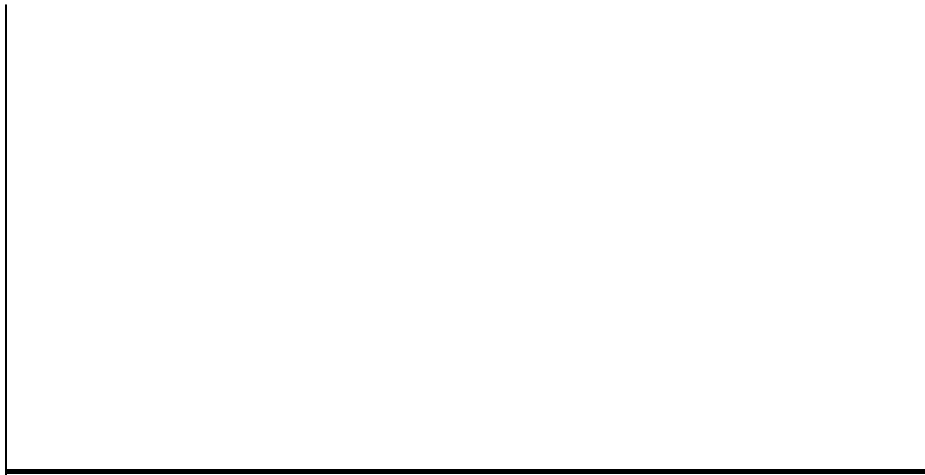
0

1-5

6-10

more than 10

Use the data you collected to draw a bar graph showing your results.



How many times have you flown?

A IS FOR AIRPLANE

AVIATION ALPHABET

Did you know the letters on the side of an airplane actually stand for words? Below is the official aviation alphabet.

A—ALPHA

B—BRAVO

C—CHARLIE

D—DELTA

E—ECHO

F—FOXTROT

G—GOLF

H—HOTEL

I—INDIA

J—JULIET

K—KILO

L—LIMA

M—MIKE

N—NOVEMBER

O—OSCAR

P—PAPA

Q—QUEBEC

R—ROMEO

S—SIERRA

T—TANGO

U—UNIFORM

V—VICTOR

W—WHISKEY

X—X-RAY

Y—YANKEE

Z—ZULU

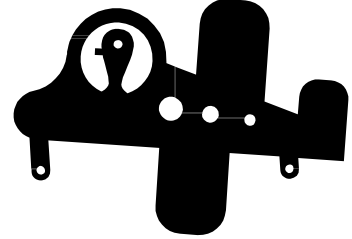
This alphabet is used so that all pilots and control towers can be easily understood. All planes registered in the United States start with the letter N (the N stands for the United States). A plane registered N 2 CG would be read N 2 Charlie, Golf

Write 3 plane identifications using the aviation alphabet.

A is for Airplane

BRAINSTORM

When you brainstorm, there are no right or wrong answers. You make a list of anything that comes into your mind relating to the topic. When you are finished brainstorming and look at your list you may be pleasantly surprised at how many good ideas you have written. Let's give brainstorming a try.



Brainstorm all of the ways you could get into the sky.

Brainstorm as many things as possible that you see in the sky.

Circle your most creative idea in each of your brainstorm lists.

A is for Airplane

SPACECRAFT OF THE FUTURE

The history of the airplane can be found in the book *A is for Airplane*. Learn about early man and how he attempted to fly like a bird. You can also learn about the International Space Station and many other types of aircraft that have been developed over the centuries. The book explains the past but what about the future?

Design a spacecraft for future travel. It must be able to carry a family into space. It should be big enough for a family of six but it must be small enough for a family to fly. This will take some thinking!!

Use this space to plan your design. You need to design the outside and the inside of your spacecraft. Consider the fact that you will be weightless in space.

Make a 3-dimensional model of your final design. Be creative and have fun!

A IS FOR AIRPLANE

VIEW FROM A GLIDER!

Do you know what a glider is? Discover this motorless way of flying on the G page of *A is for Airplane*. This wonderful book can teach many interesting facts about airplanes and flying.

Pretend you are riding on a hang glider. Think about what the ground would look like from the viewpoint of a hang glider. Draw a picture of your view from the air. Use this page to draw a rough sketch. Draw your finished product in color on a large sheet of paper.

A is for Airplane

JOHN F. KENNEDY

John F. Kennedy didn't live long enough to fulfill his dream of sending a man to the moon and back. Read about his vision in the book *A is for Airplane*.

What is your vision for the future of the United States?
State your vision and then write a plan to make it happen.

Vision _____

Plan _____

A is for Airplane

LOOK HIGH AND LOW

All of the answers to the following questions can be found throughout the pages of *A is for Airplane*. Search high and low and you're sure to discover the answers.

1. How many Wright brothers were there? _____
2. Who has been referred to as "Mr. Supersonic?" _____
3. Name the illustrator of *A is for Airplane* _____
4. Where did Lindbergh land after his nonstop flight across the Atlantic?

5. Name the famous artist who first understood that people could not fly on their own. _____
6. The Blue Angels represent which branch of the service? _____
7. Can helicopters carry trucks? _____
8. Which president encouraged the United States to land a man on the moon?

9. Where is the United States Air Force Memorial located? _____
10. To which state would you go if you wanted to attend the EAA AirVenture Oshkosh?

11. Who clears pilots to take off and land? _____
12. In which year did the space shuttle program begin? _____

A IS FOR AIRPLANE

The Poetry of Flying

Read the great book *A is for Airplane* and think about flying and how it feels to be above the clouds.

Writing poetry is a wonderful way to express your feeling on a topic. Write a descriptive poem about flying.

An acrostic poem uses each letter in a word to start a new sentence describing the experience of flying.

F _____
L _____
Y _____
I _____
N _____
G _____

A is for Airplane



This easy recipe is fun to make and yummy to eat. Enjoy these cookies while reading *A is for Airplane*.

Space Ball Cookies

Ingredients

1 box vanilla wafers
1 stick butter or margarine
1 6 oz. can of frozen orange juice
2 cups powdered sugar
Shredded coconut

Directions

1. Crush vanilla wafers between two sheets of waxed paper.
2. Melt butter.
3. Mix all ingredients except coconut.
4. Roll dough into balls using clean hands.
5. Roll balls into the coconut.
6. Eat and dream about the moon!

A IS FOR AIRPLANE

How Does a Rocket Work?

A rocket is a unique type of plane. It needs to be launched in order to reach space. It can't use its own power to get far enough into space.

Have fun experimenting with rocket balloons.

Materials

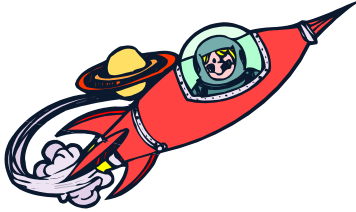
Long balloons (not real skinny)
Plastic drinking straws
Fishing line
Masking tape
Meter stick

Procedure

1. Thread the fishing line through a plastic straw. Stretch the string tightly. Attach each end of the fishing line to a wall or door. Make sure it is secure.
2. Blow up a balloon and measure its length. Record the data. (Don't tie the balloon, but tightly hold the end.)
3. Tape the balloon to the straw. Tape near the opening (still holding the end of the balloon).
4. Release the balloon. Measure and record the distance the balloon travels.
5. Try filling the balloon to different lengths. Record the data.

Conclusion- What conclusion can you draw based on the data you collected?

A is for Airplane



A Vacation to the Space Station

In the not-too-distant future you and your family may be able to take a vacation to the International Space Station. Learn about this amazing place in the book *A is for Airplane*. Pretend your family was chosen to be the first family to vacation at the International Space Station.

Make a list of questions you would ask the astronauts on the station.

Make a list of experiments you would like to try while on the space station.

Explain some problems you might have trying your experiments.

A IS FOR AIRPLANE

ANSWERS

Airplane Crossword- 1) Angels 2) Icarus 3) runway 4) pilot 5) launch
6) air 7) noise 8) Earth

What's My Job- 1) pilot 2) cleaner 3) flight attendant 4) baggage
handler 5) ground crew 6) control tower

Planes from A to Z- 1) airplane 2) biplane 3) dirigible 4) float plane
5) glider 6) helicopter 7) jet 8) rocket 9) space shuttle 10) space station

Famous Flyers- 1) Yeager 2) Icarus 3) Amelia Earhart 4) Otto Lilienthal
5) Igor Sikorsky 6) Tuskegee airman 7) Wright brothers

Fast and Far- 1) 3 hours 24 minutes 2) 2,750 3) Plane A 4) 2,700

Which Plane Am I- 1) jumbo jet 2) helicopter 3) glider 4) space
shuttle 5) blimp 6) float plane 7) rocket

Look High and Low- 1) 2 2) Chuck Yeager 3) David Craig 4) Paris,
France 5) Leonardo da Vinci 6) U.S. Navy 7) yes 8) Kennedy
9) Arlington, Virginia 10) Wisconsin 11) air traffic controller 12) 1981