

Kites, Flight & Wind Books

These can be found as read-alouds on YouTube

- Planes and Other Flying Machines by Jill McDonald
- Just a Kite by Mercer Mayer
- Kite Day a Bear and Mole Story by Will Hillenbrand
- Kite Flying by Grace Lin
- Let's Fly a Kite by Stuart J. Murphy
- Curious George Flies a Kite by H.A. Rey
- Planes Fly by George Ella Lyon
- Paper Planes by Jim Hilmore& Richard Jones
- Violet the Pilot by Steve Breen
- If I Built a Car by Chris Van Dusen
- Sadie Sprocket Builds a Rocket by Sue Fliess
- Like a Windy Day by Frank & Devin Asch
- The Wind Blew by Pat Hutchins
- The Windy Day by Anna Milbourne & Elena Timpourin
- Feel the Wind by Arthur Dorros
- · Gilberto and the Wind by Marie Hall Etts

Online Weather Report for Children: https://kidsweatherreport.com

Where Does Wind Come From? https://youtu.be/oHUVxkx8QRo?feature=shared

Kites, Flight & Wind

Songs/Poems:

The Playful Wind

The wind came out to play one day,
He swept the clouds out of his way.
(make sweeping motion with hands)
He blew the leaves
And away they flew.
(Make fluttering motions with fingers)
The trees bent low
And their branches did too!
(lift arms high and lower them)
The wind blew the great big ships at sea.
(Repeat sweeping motion)
The wind blew the kite away from me!
(Sweeping motion)

5 Little Kites

Five little kites went out to play
The first kite said, "It's a windy day!"
The second kite said, "Look at me! Look at me!"
The third kite said, "Watch out for that tree!"
The fourth kite said, "Let's fly to the sun."
The fifth kite said, "What fun! What fun!"
Then whoosh went the wind, and it blew all the kites.
Then they danced in the sky and flew out of sight!

The Airplane

The airplane has great big wings! (arms out at sides)
The propeller spins around and sings (move arms in circle)
The airplane goes up! (raise arms)
The airplane goes down! (lower arms)
The airplane flies high (arms out at sides)
Over our town! (turn in a circle)

Elements of Flight

Thrust

Thrust is the forward force required to move an aircraft through the air. This is provided by an engine, by gravity (glider), or by muscles (birds). On a kite, the string helps the wind to keep it from flying away and moving about.

Observe that air is all around us and can move objects.

Blow on your hand. What did you feel? What is that?

Now everyone will blow air toward the tissue. What happens? What happens if you blow softly? Now, hard? Blow a tissue as far as you can.

Holding an empty balloon, without air inside the balloon, is it big or small? Round or flat? Stiff or floppy? What will happen when you fill it up? Fill up a balloon and notice its change let it go...thrust

Gravity

Why can we stay on the ground when we walk and not float away? The wings of birds and planes have what is called an airfoil shape. This airfoil shape helps us overcome/counteract **gravity** pulling down on the aircraft.

Demonstrate this with dropping a balloon and a pencil on the ground at the same time. Count the drop.

Drop a feather and a shoe. Lightweight things float because the air is holding them up in the same way water holds up a floating object.

Drop the paper to the ground. What happens?

Crumple the same piece of paper SLIGHTLY. Drop it to the ground. Did it fall faster or slower?

Now TIGHTLY crumple the paper into a small tight paper. Drop. Did it drop differently?

What happened each time?

Airplanes are the heaviest object that can fly, but can stay up in the air because the engine moves makes the plane move through the air fast enough, that air pushes up against the wings of the plane and holds it in the sky.

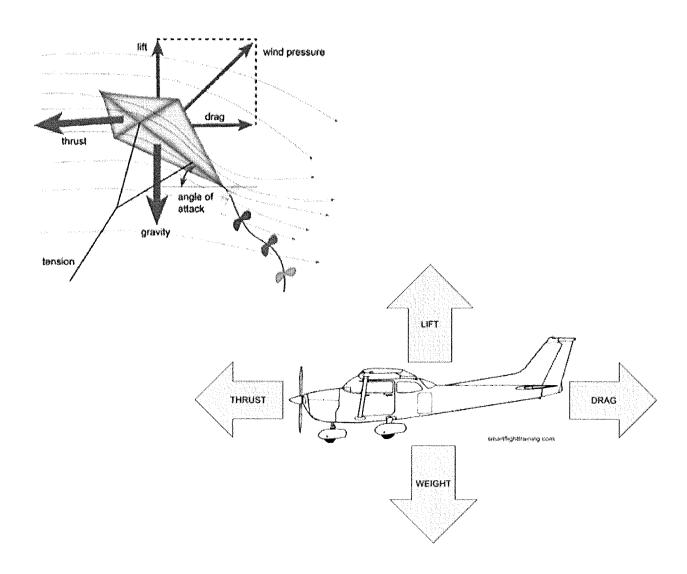
Lift

If Gravity is the force that keeps us on the ground, then lift is the opposite. In order to get an object that is heavier than air to fly, you must create lift. That airfoil shape(wings) gives things **lift**. It's what overcomes gravity. The action of lifting an object to lift up and push forward, whether man made like a kite or birds, keeps them airborne.

Blow on a piece of paper 2x11in. Which way did it blow, up or down? The faster moving air pushes the paper up, helping objects to fly. It's a higher pressure below the paper, and a lower pressure above when the air is moving. This gets an airplane off the ground.

Drag

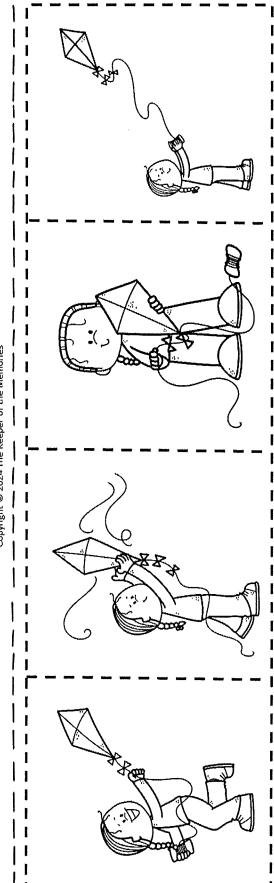
Something that slows us down is **drag**. Drag is the resistance to airflow. It slows down an aircraft through the air. Make a paper dart airplane. Fly it...Change the plane by making a slit in the back of the plane to create drag. Fly it... talk about the difference.



How to Fly a Kite Directions: Color the pictures. Cut and paste them in the correct order.

Last
Then
Next
First

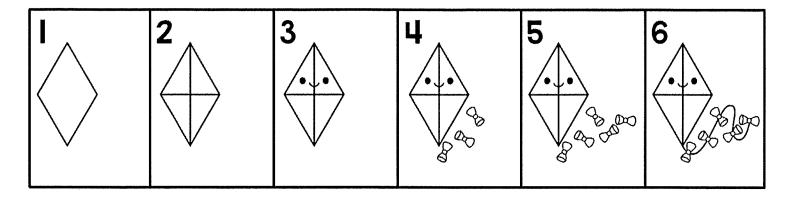
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Name _____

Kite Drawing

Directions: Follow the step-by-step instructions to draw the picture.



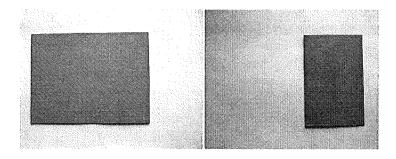
Making a Kite

To make this kite, you will need:

- 1. **8.5"x11"** piece of paper. This is your standard copy paper size. Regular paper works fine, but I like card stock because it's a little sturdier. Use whatever you have. If you use plain white paper, let your kid color bright designs all over it before beginning the project.
- 2. A wooden skewer. A straight drinking straw works too.
- 3. **Kite string**. You can find this at a lot of department stores. If not, almost any strong but light string would work. Quilters' string is about the right thickness. Yarn may be too heavy, sewing thread too light. Fishing line is light but strong.
- 4. **Ribbon**. Most wide ribbon would work fine. I like using surveyors tape (available at hardware stores) because it's made of plastic, which is lighter (for a longer tail!) and durable. Surveyors tape comes in bright fluorescent colors that kids like.
- 5. Scissors or hole punch.
- 6. Tape.

Start with your piece of paper:

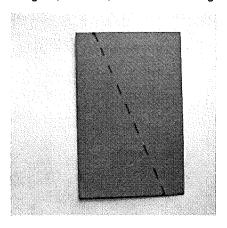
Fold it in half.



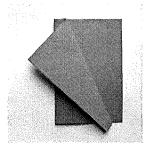
Mark a point on the top of the paper about one inch from the fold.

Mark a point on the bottom of the paper about one inch from the open side.

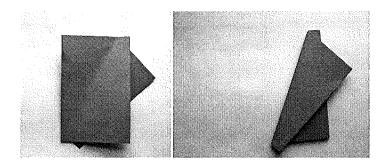
Imagine, or draw, a line connecting these two dots.



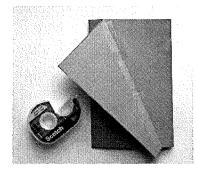
Fold the top corner of the paper down along the line that you've just created.



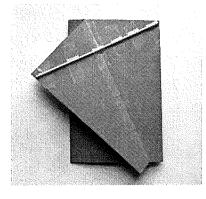
Next, flip the paper over and fold the other side down to match the side you just folded.



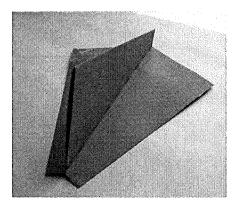
Flip the paper back over so that it looks the way it did in Step 4. Tape along the middle seam.



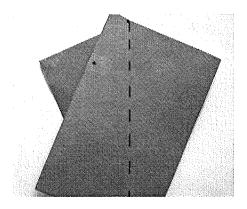
Lay a skewer across the kite, as shown, and tape it in place. You'll probably have to cut the skewer down to size with your scissors.



Flip the kite back over and straighten the "spine".



Mark a spot about a third of the way down the spine, and about half an inch from the edge. Put tape over this mark to reinforce it on both sides.

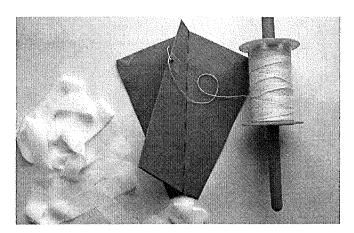


Use your hole punch or scissors to make a hole in this spot.

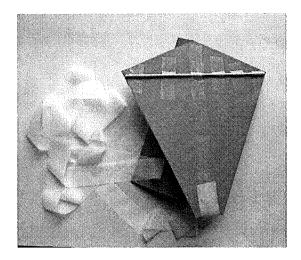
Tie your kite string through this hole. Make sure to use a good knot!

Tape a length of ribbon to the back of the kite, at the bottom.

If you use light ribbon like surveyors tape, the tail can be 6-10 feet long. Heavier ribbon should be shorter. You can experiment with the length; if it seems the kite can't hold up your ribbon as it flies, just trim it shorter.



Your kite is ready to fly!

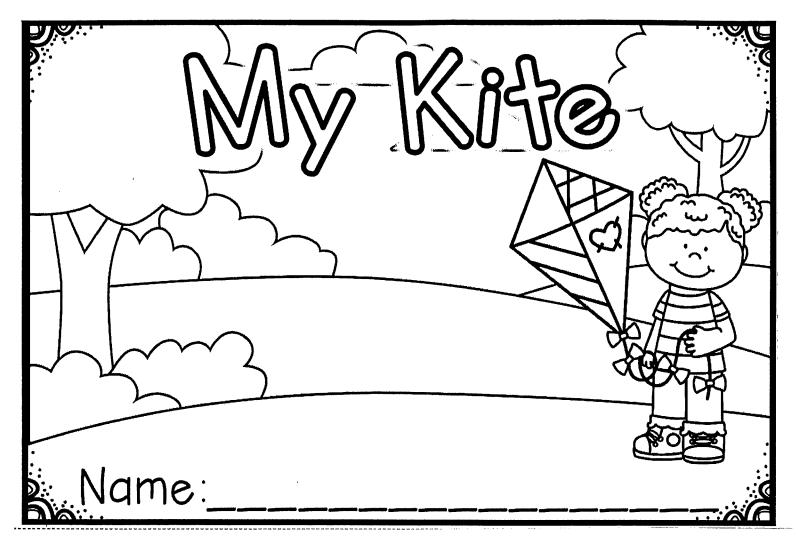


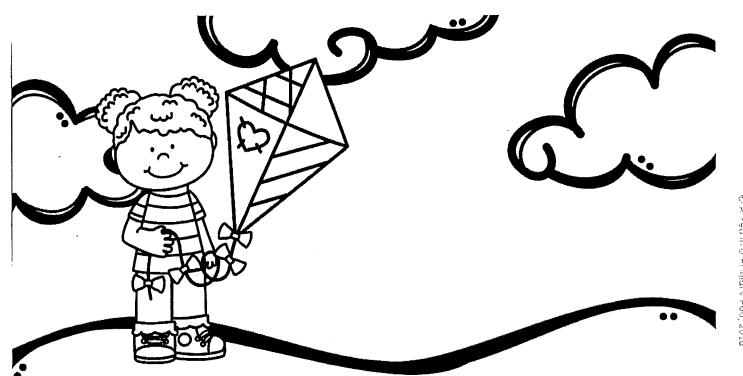
These kites don't need very much wind to get lift, and are not the best for VERY windy days. A nice steady breeze is all it needs.

Remember, sometimes it takes practice to learn to fly a kite. Just remember to reel it in some if it looks like it's falling, and let out more string if it starts to tug hard. Make sure that middle "spine" is straight before the kite goes up.

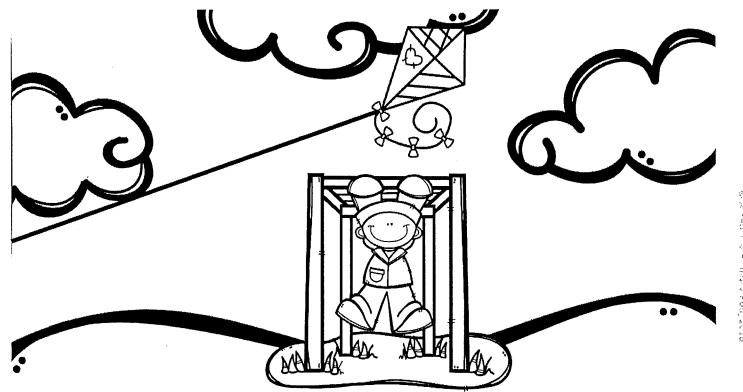
Good luck!

https://www.instructables.com/Easy-Paper-Kite-for-Kids/

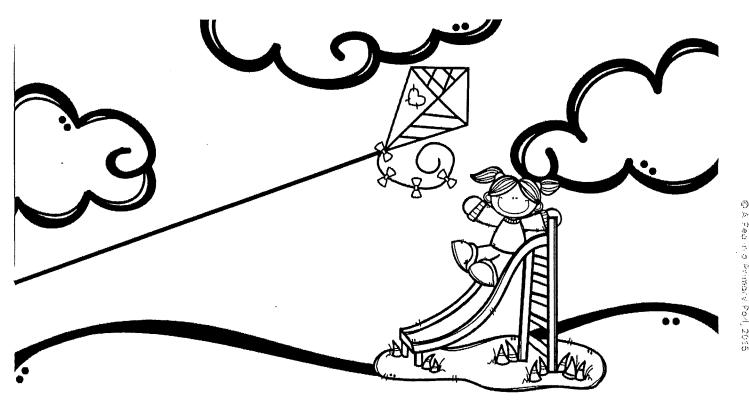




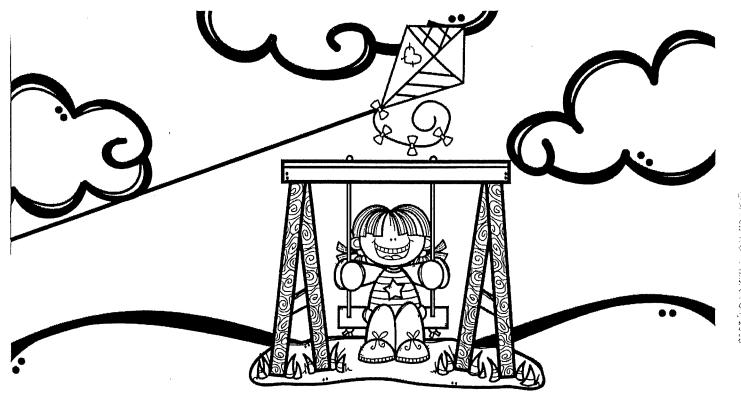
I like to fly my kite at the park. Where will it go?



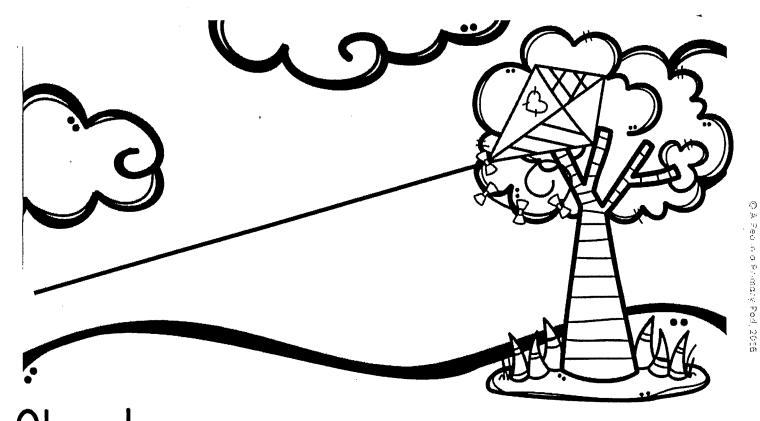
It will fly up and over the monkey bars. Where will my kite go now?



It will fly up and over the slide. Where will my kite go now?



It will fly up and over the swing. Where will my kite go now?



Oh no! My kite is stuck in the tree!

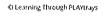
Directions: Think back to the text. As a class, write the problem in the story on the lines provided. Think of a way to solve the problem and write it on the lines under the word Solution. Once complete, cut out the problem/solution chart. Cut on the solid line between the writing lines, put glue on the back of the problem/solution header, and glue it in the matching space on the next page. Fold the writing page up at the dotted line and draw pictures to match your writing, under each sentence. Share your solution with a partner or the class.

Problem	Solution

Y W	
Name	9:
	"My Kite" Problem and Solution
TYY	

Glue he	ere
---------	-----

ITHINK





I WONDER

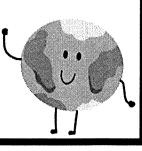


I SEE ,THINK WONDER

THIS GUIDES CHILDREN TO

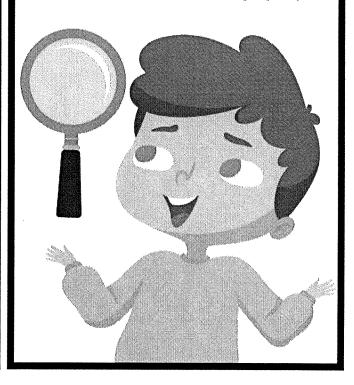
- OBSERVE ("I SEE"),
- REFLECT ("I THINK"),
- QUESTION ("I WONDER")

AS THEY EXPLORE THE WORLD AROUND THEM.



I SEE

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Name:







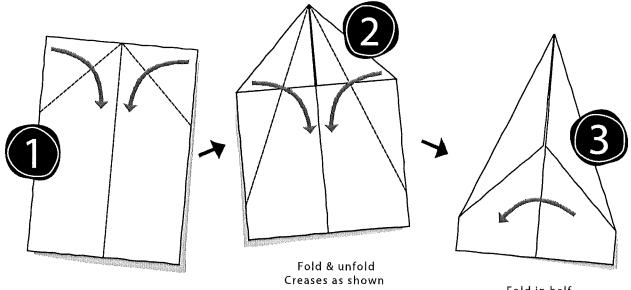


PAPER PLANES,

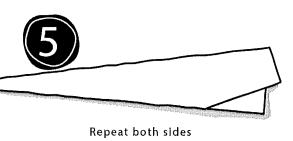
THE CLASSIC DART

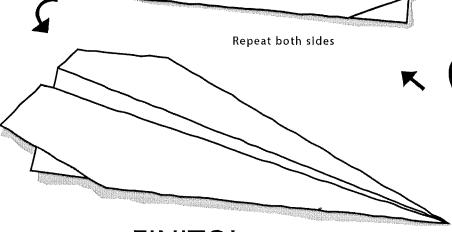
LEVEL: ROOKIE ★☆☆

INSPIRED BY THE TRADITIONAL PLANE



Fold & unfold Creases as shown

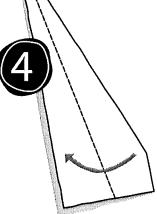




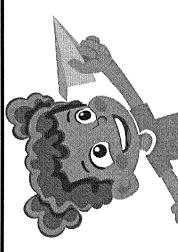
FINITO!

Could not be more simple. Throw by holding the base and letting fly from fingers.





Fold down to form wing



FLIGHT DISTANCE PAPER AIRPLANE



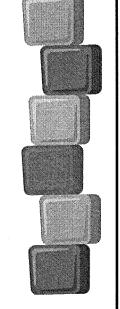
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How far did my airplane fly?



Measurement Tool

Test 1

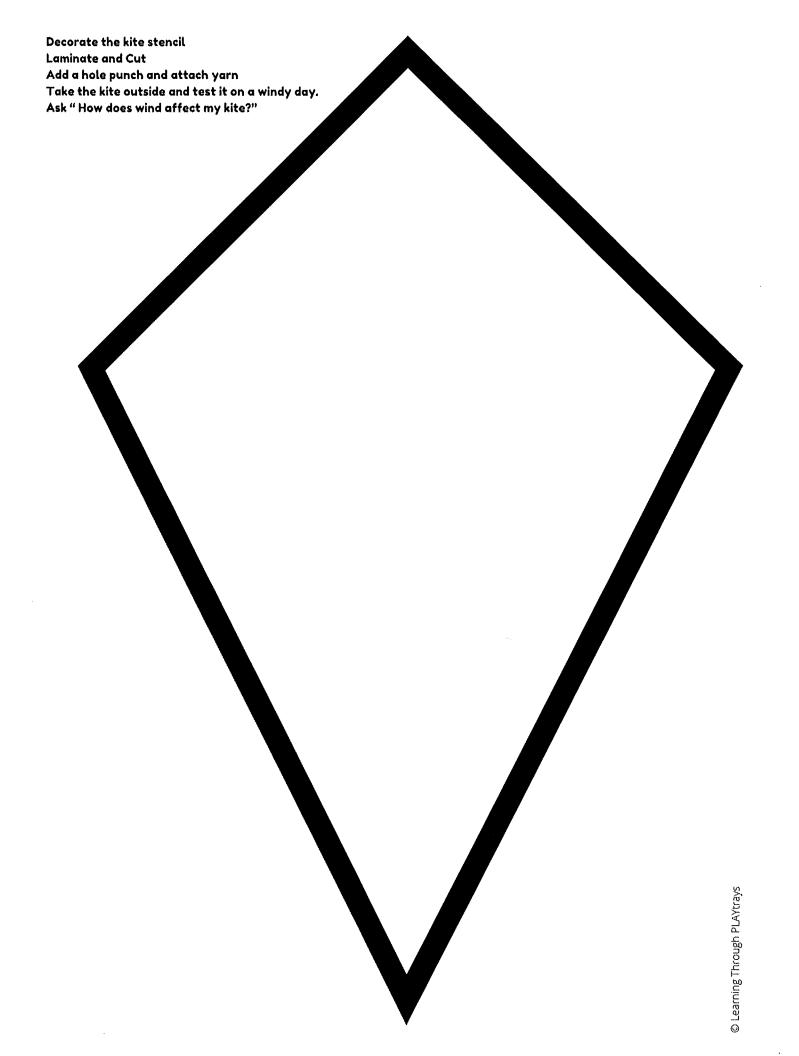


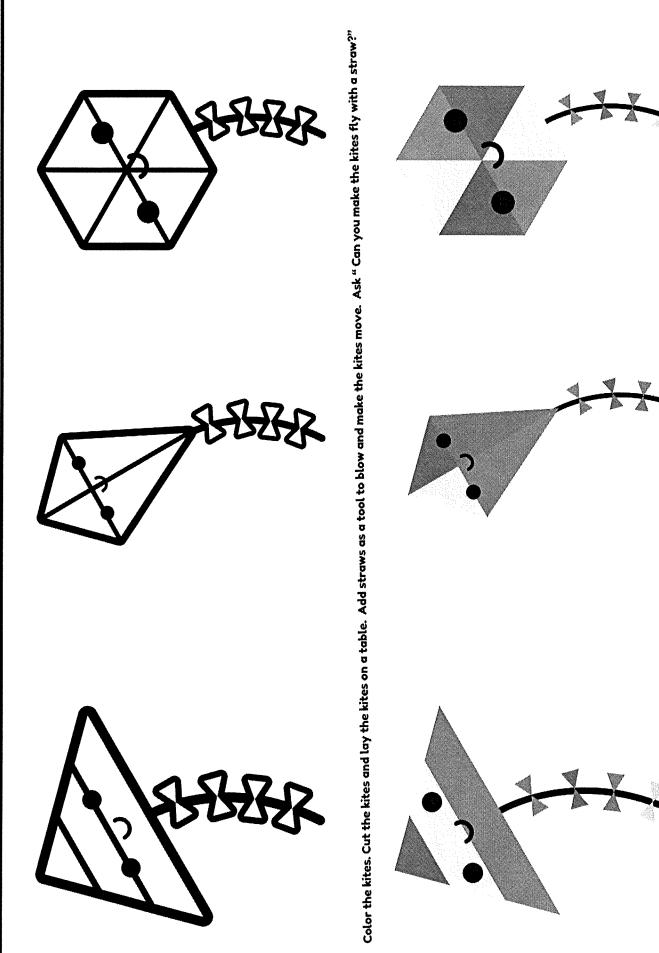
Test 2



Test 3

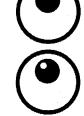






NAME

MY SCIENCE PROJECT



I SEE

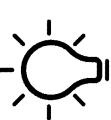


I THINK



I WONDER

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Straw Rockets

Materials:

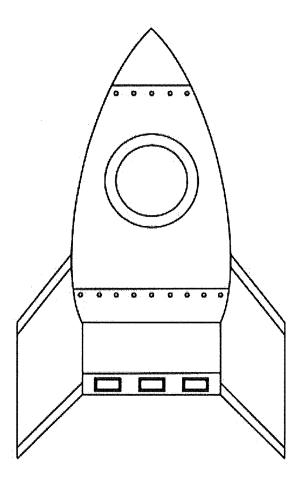
- Straws
- Tape
- Larger diameter straws
- Markers, crayons or colored pencils
- Scissors
- Rocket Template

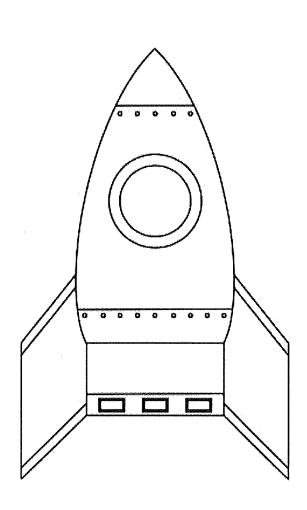
Directions:

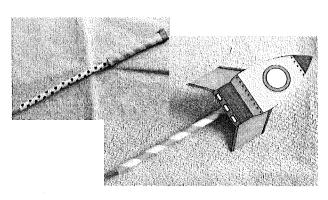
- 1. Color and cut out the rockets.
- 2. Cut the bottom off of the larger diameter straw and attach it to the back of a rocket with tape.
- 3. Slip a regular sized straw into the larger straw and you are ready to launch!
- 4. Give your straw a big puff of air and watch it launch!

Extension:

- Does changing the angle that you launch your rocket affect the distance that it travels?
- Try adding another fin to your rocket with tape, how does it affect the flight of your rocket?

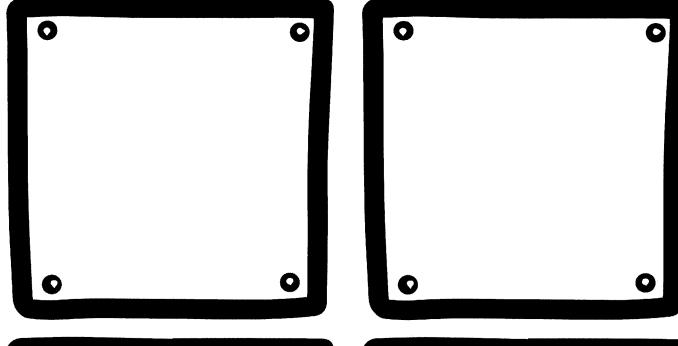


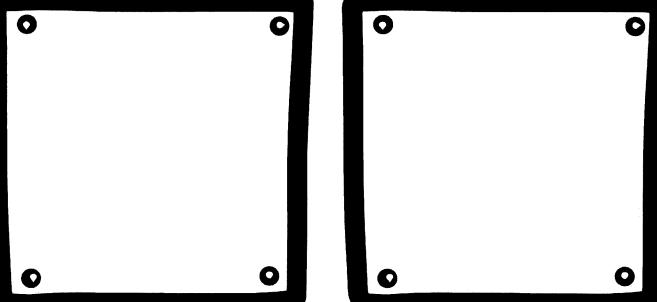




Kindergarten and ME

Draw four memories from kindergarten.





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Kindergarten Canal ME

Name

One thing I love about schoolis

One thing I don't love about school

THEN and NOW

Name _____

lst day of Kindergarten •

LAST day of

Kindergarten

On the first day of kindergarten, I felt...

On the last day of kindergarten, I feel...

YEARBOOK

excited

nervous

happy

anxious

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Kindergarten FRIENDS &

Nume	
I learned I can be a goo	od friend by
	:



Mamo

sharing



taking turns



being helpful



asking questions

"How are you?"

inviting others to play



being generous



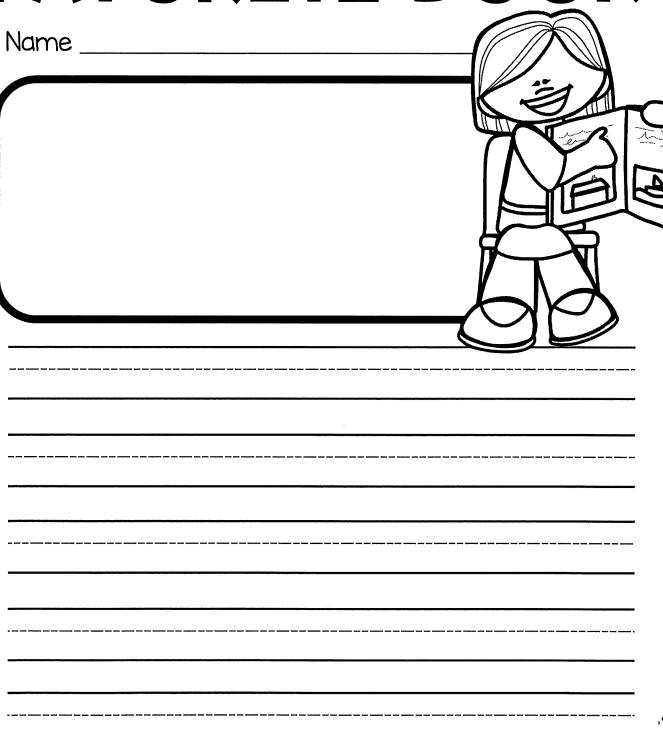
giving compliments



including others

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Kindergarten FAVORITE BOCK



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