

It's a Bird!

It's a Plane!

No! It's Air!

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Graphics by melonheadz, hazel owl

It's a Bird! It's a Plane! No! It's AIR!!!

Unit includes:

Wind info mini poster

Poetry on wind and clouds

Recording sheet for Mental Movie

Directions on how to make a Flutterfly

Recording page for using the Flutterfly

Cloud info poster

Cloud Watcher template

Cloud watcher recording sheet

Weather word search

Weather matching game

Weather Reporter pages

Hot air balloon science activity



What is wind?

Air is in constant motion. It is affected by changes in pressure and temperature.

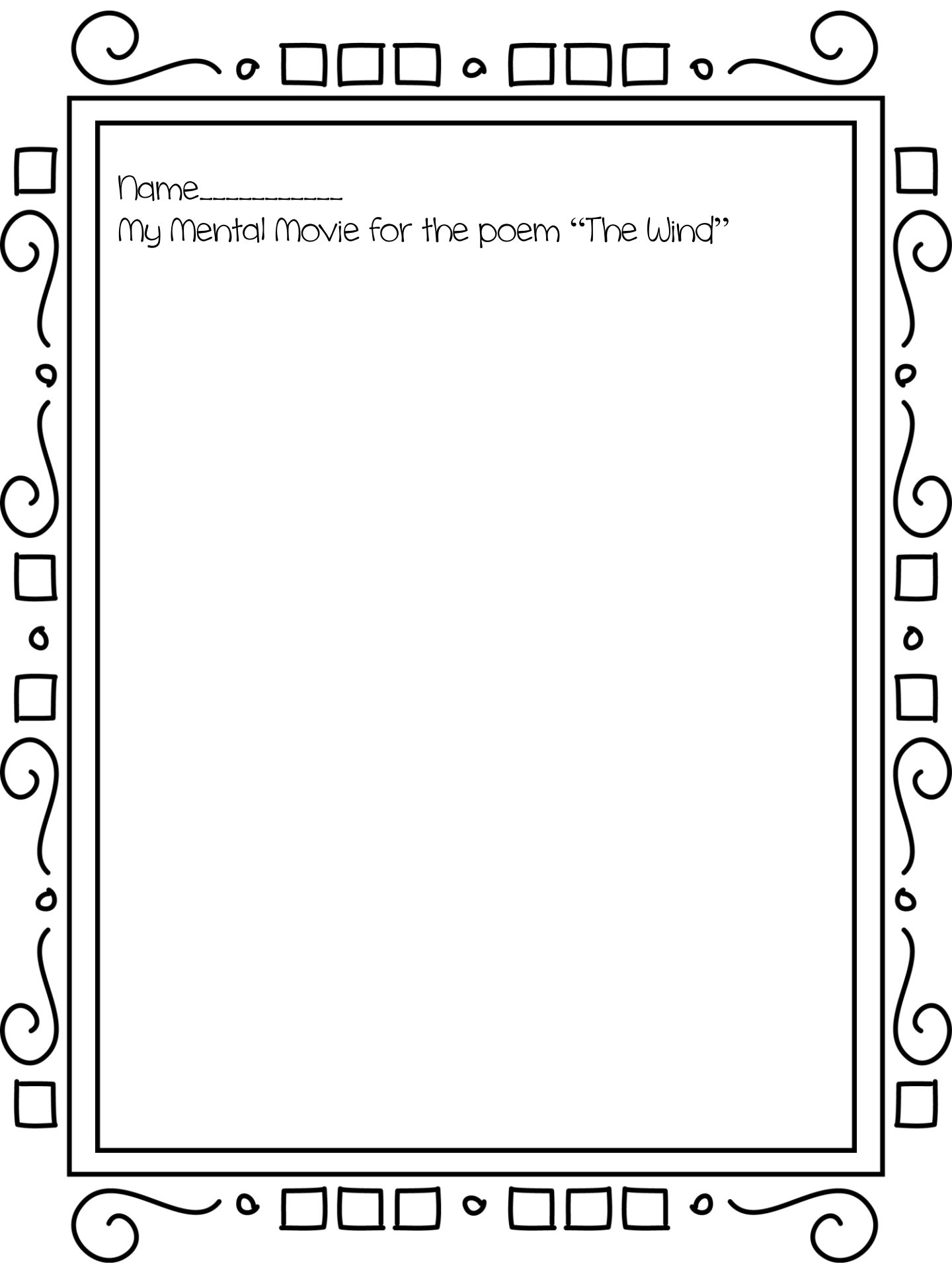
When one area heats up more than another area that it is next to, the difference in pressure creates **wind**. It is a rotation cycle of cool air and warm air.

Air that grows warmer rises upward. This is called an updraft. Cooler air flows to the surface to fill up the space left by the rising air. This cooler air also heats up and rises. The air above cools down, but it can't get back to the surface because of the warm air rising from beneath it. This flow of air pushes off to the side as **wind**, to head back to where the cooler air came from.



The Wind

The wind came out
to play one day,
He swept the clouds
out of his way,
He blew the leaves
and away they flew,
The trees bent low
and their branches did too,
The wind blew the great
big ships at sea,
The wind blew my kite
away from me.



Name _____

My Mental Movie for the poem "The Wind"

Windy, Windy Day

Windy, windy day!
Windy, windy day!
We'll all



On a windy, windy
day!



Name_____

Make a Flutterfly

****You will need:

2 pieces of cloud shaped paper

6 crepe paper streamers (multi colored)

****Directions:

Write weather words on the cloud shapes. Glue ends of streamers to the bottom of one cloud shape. Glue the 2nd cloud to sandwich the streamers. Take your Flutterfly outside. Hold it by the cloud so the streamers hang down.

Can you see the streamers moving? _____

Why do you think they are moving?

Why can't you see the wind?

Bring your Flutterfly back inside.

Can you see the streamers moving?_____

Why or why not? _____



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What are clouds?

A cloud is a large collection of very tiny droplets of water or ice crystals. The droplets are so small and light that they can float in the air.

How are clouds formed?

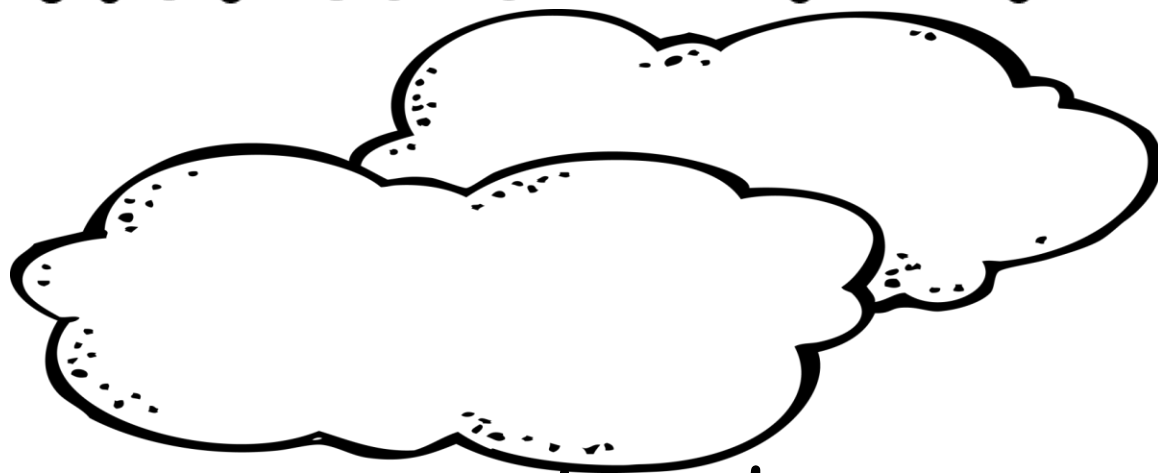
All air contains water, but near the ground it is usually in the form of an invisible gas called water vapor. When warm air rises, it expands and cools. Cool air can't hold as much water vapor as warm air, so some of the vapor condenses onto tiny pieces of dust that are floating in the air and forms a tiny droplet around each dust particle. When billions of these droplets come together they become a visible cloud.

Why do clouds float?

A cloud is made up of liquid water droplets. A cloud forms when air is heated by the sun. As it rises, it slowly cools it reaches the saturation point and water condenses, forming a cloud. As long as the cloud and the air that its made of is warmer than the outside air around it, it floats!

How do clouds move?

Clouds move with the wind. High cirrus clouds are pushed along by the jet stream, sometimes traveling at more than 100 miles-per-hour. When clouds are part of a thunderstorm they usually travel at 30 to 40 mph.



Cloud

What is fluffy?

What is white?

What can you see

When skies are bright?

What can float?

What brings rain?

What may be higher

Than a bird or plane?

Say it out loud :

Cloud!

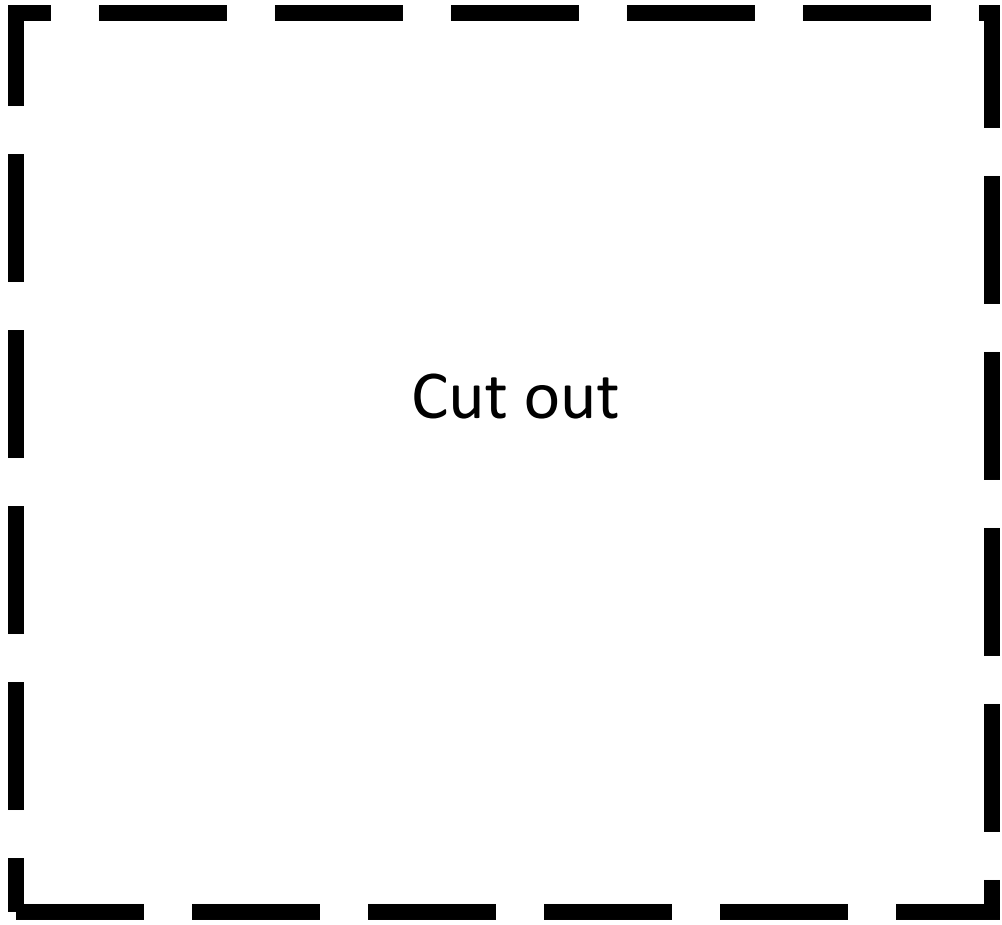


Floating clouds
up in the sky,
Changing shapes
as you pass by.

Floating by
without a sound.

Won't you come
and touch the ground?

Floating clouds
up in the sky,
Changing shapes
as you pass by.

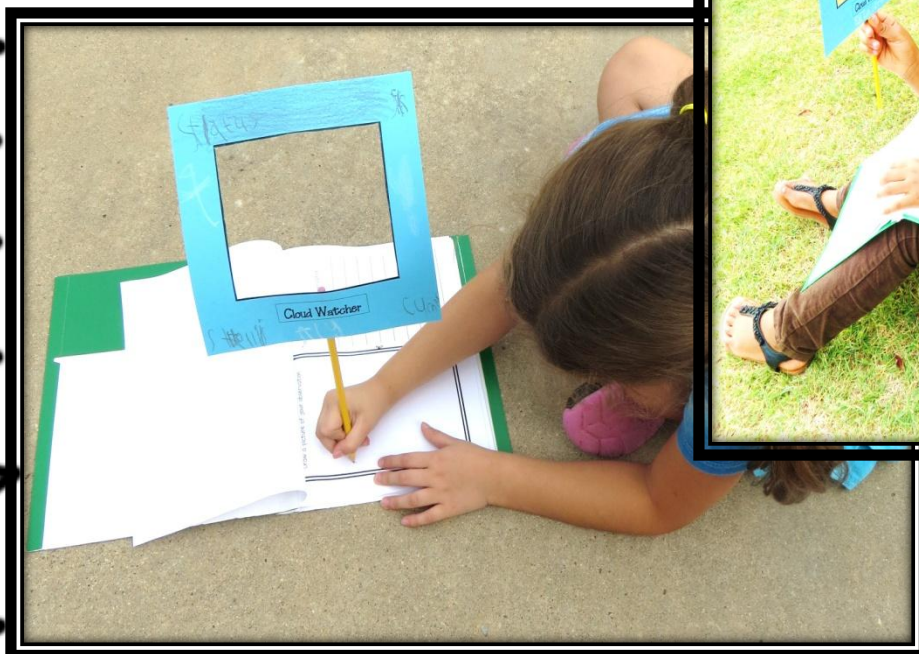
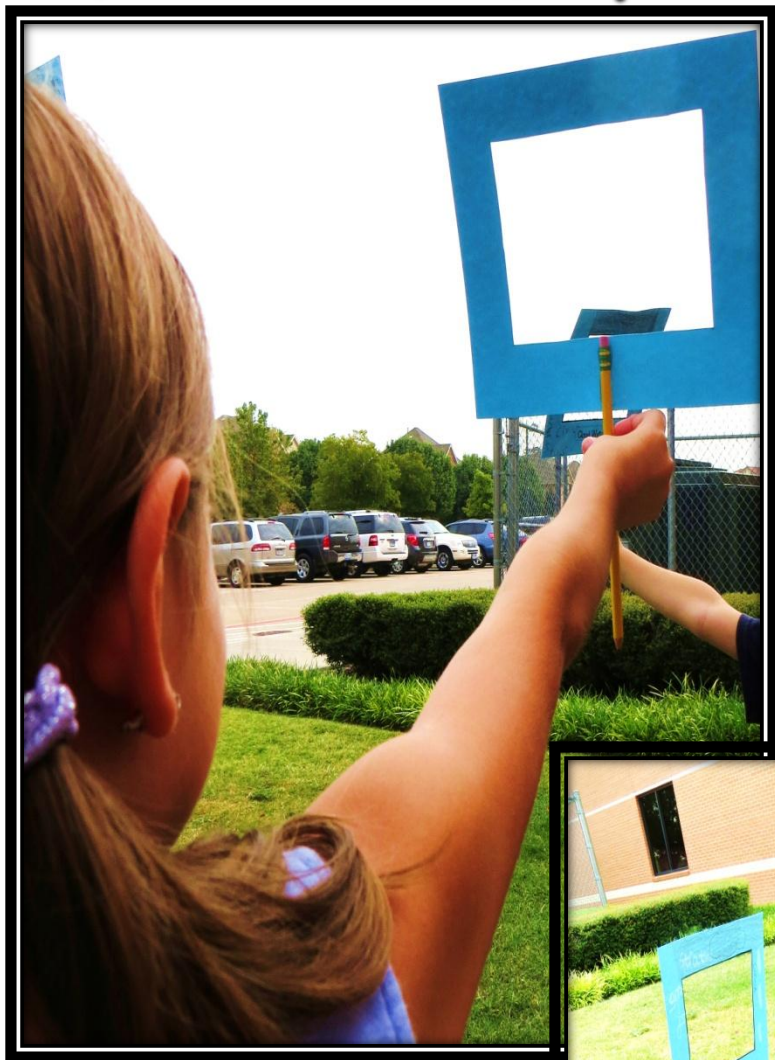


cloud watcher

Copy on blue cardstock. Cut on the dotted line above.

Cut out the center square on the dotted line as well.

Attach a stick (Or use a pencil!) to act as a handle. Kids draw different cloud formations using white/gray crayon. Go outside and observe clouds. Record findings on recording sheet



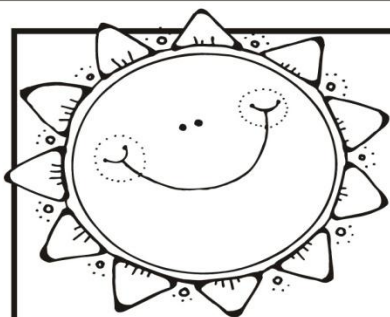
Name_____

Cloud Watcher

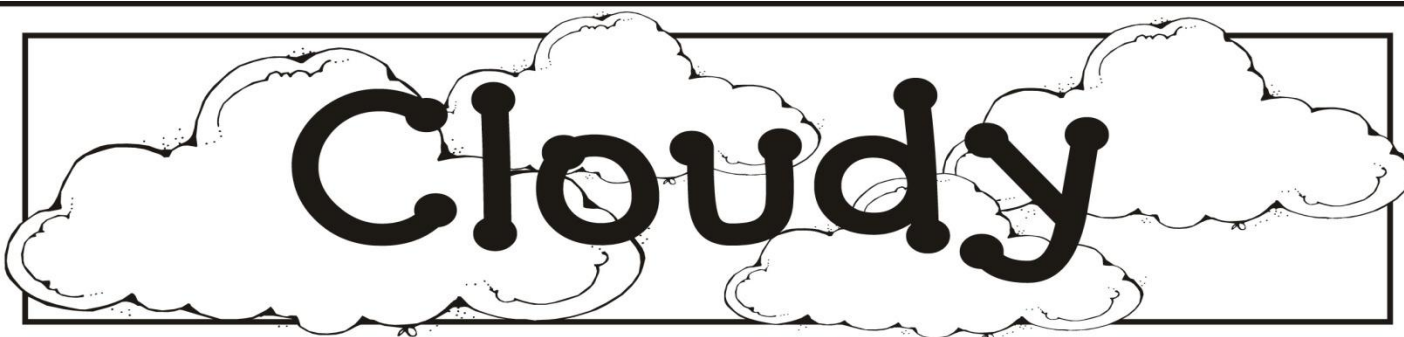
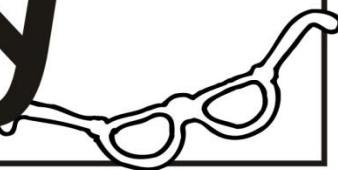
Scientists take time to observe everything around them. Go outside and observe the clouds. Draw what you found.



Windy



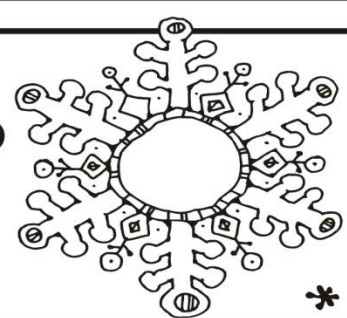
Sunny



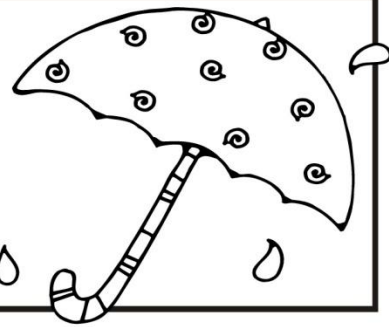
Cloudy

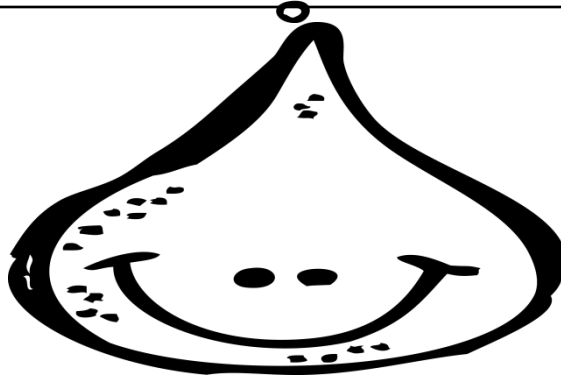
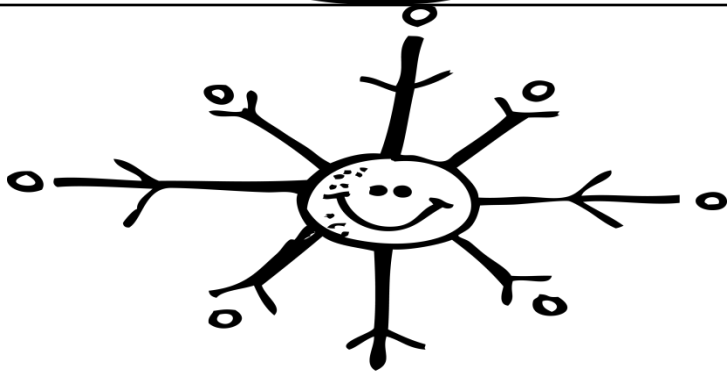
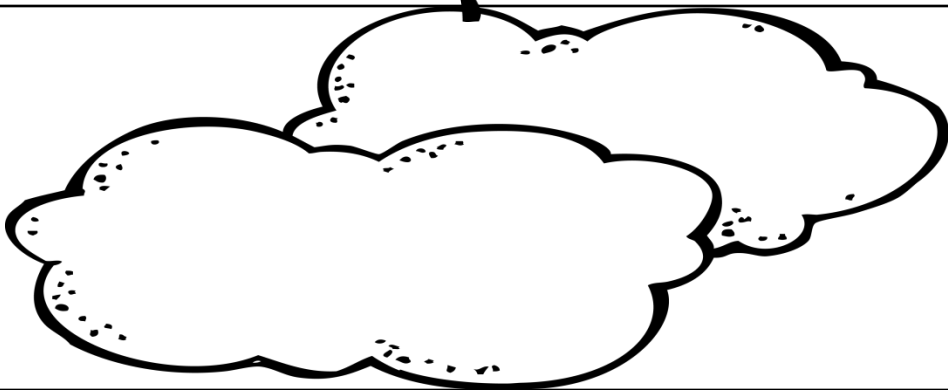
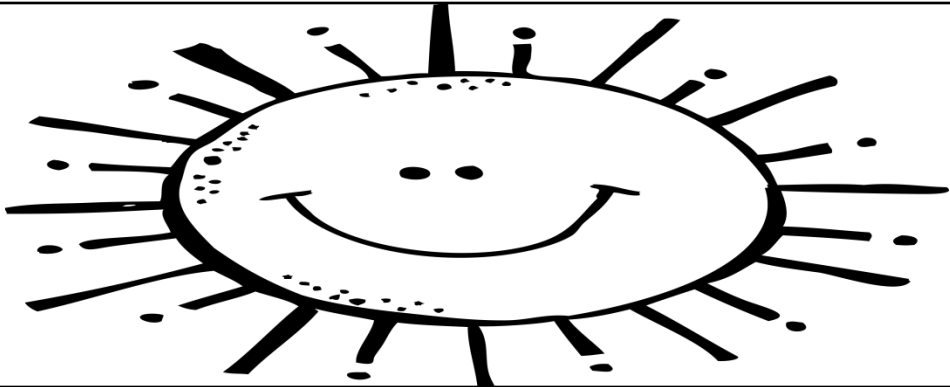
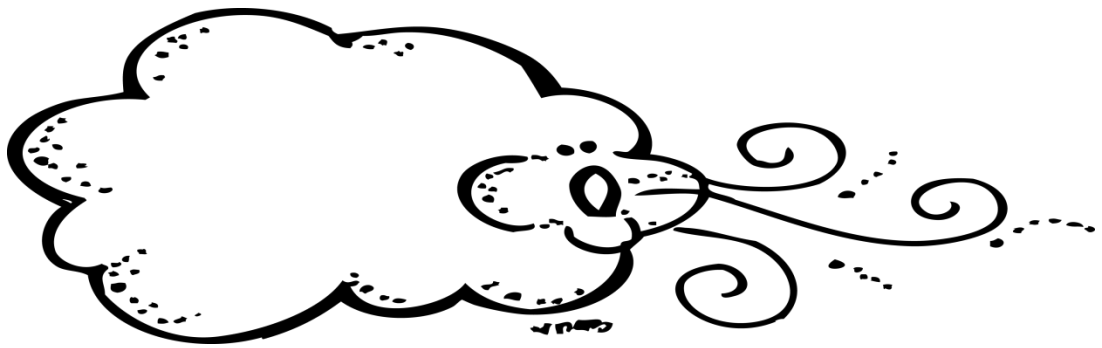


Snowy



Rainy





Weather



Weather Reporter

Yesterday the
weather was

Today the
weather is

Tomorrow the
weather will be

Weather



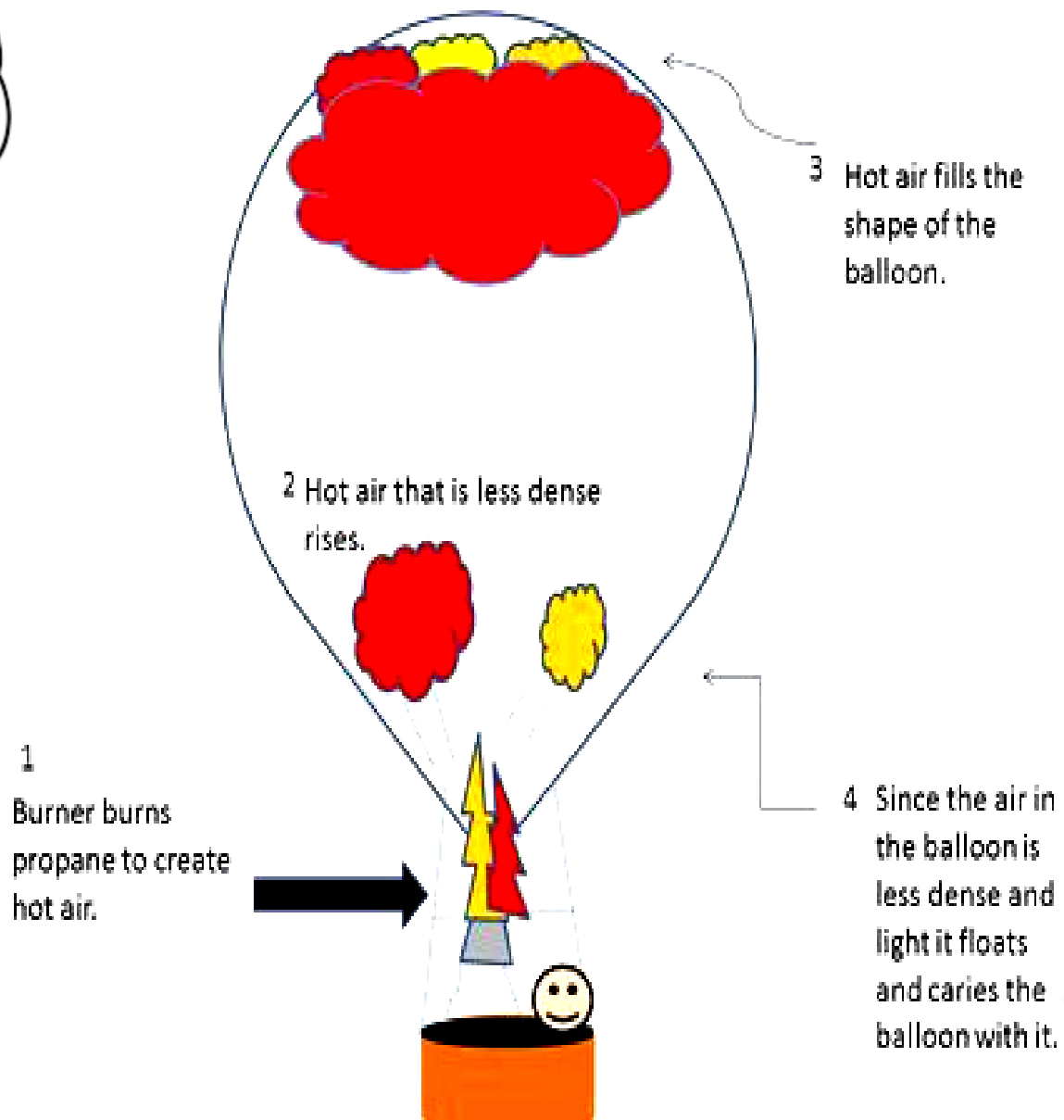
Weather Reporter

Yesterday the
weather was

Today the
weather is

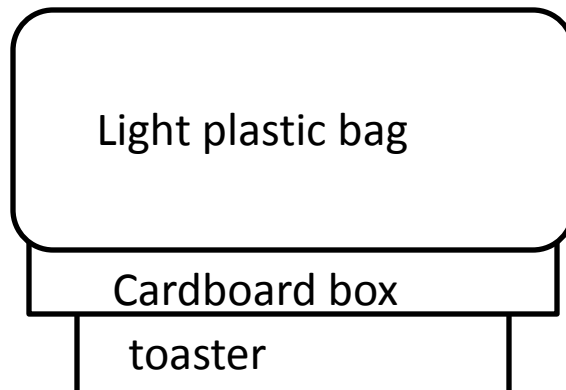
Tomorrow the
weather will be

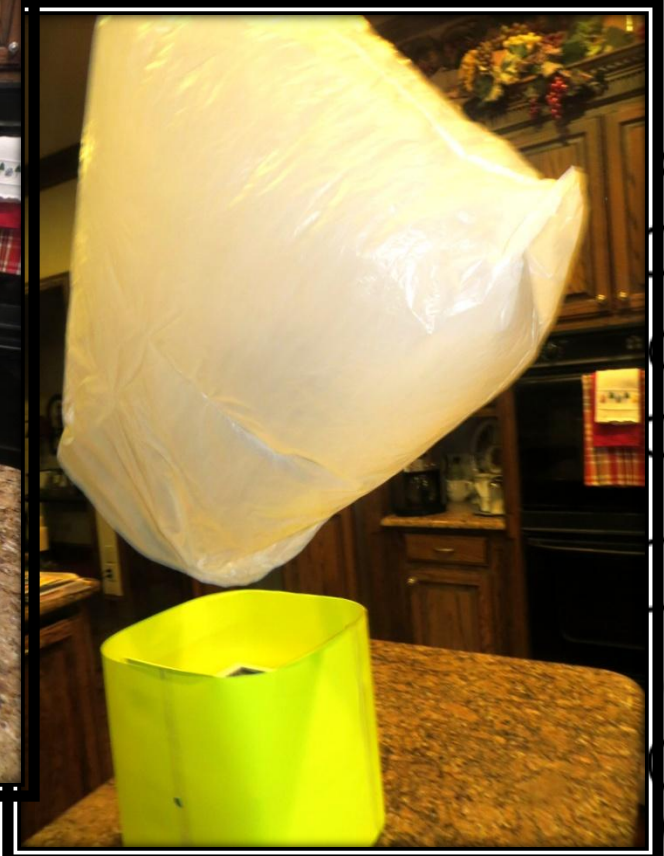
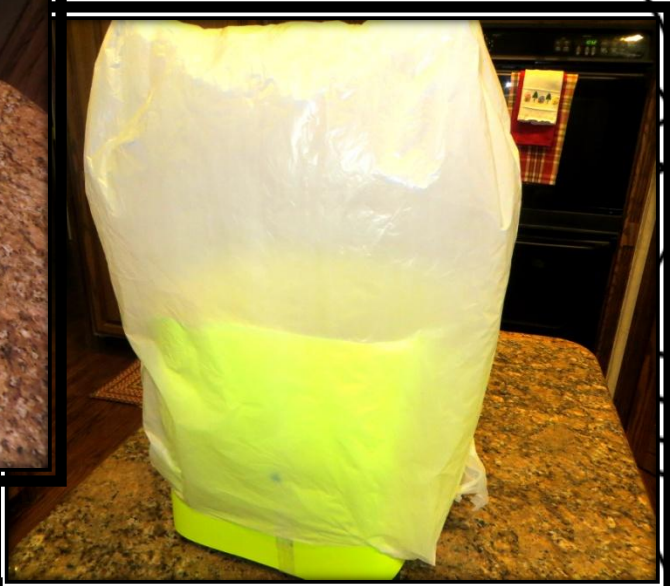
How does a hot air balloon work?



Making a Mini Hot Air Balloon

You'll need a piece of cardboard, a toaster, and a plastic garbage bag. (The thin, lightweight ones are best) Wrap the cardboard around the toaster, secure it with some tape, place the bag over it, and fire up the appliance. After a few moments you'll notice the bag start to expand, then it will shoot right up to the ceiling. The kids will think this is pure magic, and it's a clear example of how heated air molecules behave. (Always be careful with kids and toasters!!)





Name _____

Making a Mini Hot Air Balloon

Materials

How we put it together

What happened when we turned on the toaster

Why this happened

Name _____

Find all the weather words. On the back draw your favorite kind of weather

s	k	y	w	e	a	t	h	e	r
u	l	w	h	a	t	c	w	c	i
n	l	e	l	t	h	l	o	i	e
w	e	a	e	g	t	o	h	l	e
r	b	h	o	t	e	u	i	t	d
o	m	f	w	i	n	d	c	o	r
r	a	i	n	s	l	e	e	t	r
o	w	d	s	n	o	w	a	i	r

sky wind sun cloud
rain snow cold hot fog
weather sleet ice air