

# GOES

Fun Activity Book



[www.nasa.gov](http://www.nasa.gov)

[www.noaa.gov](http://www.noaa.gov)

## Meet GOES

GOES\* is a weather satellite. GOES is out in space, orbiting Earth. That means it travels around and around Earth. It makes one trip around Earth each and every day. GOES looks down on the same side of Earth all the time. GOES and Earth do a kind of space dance together.

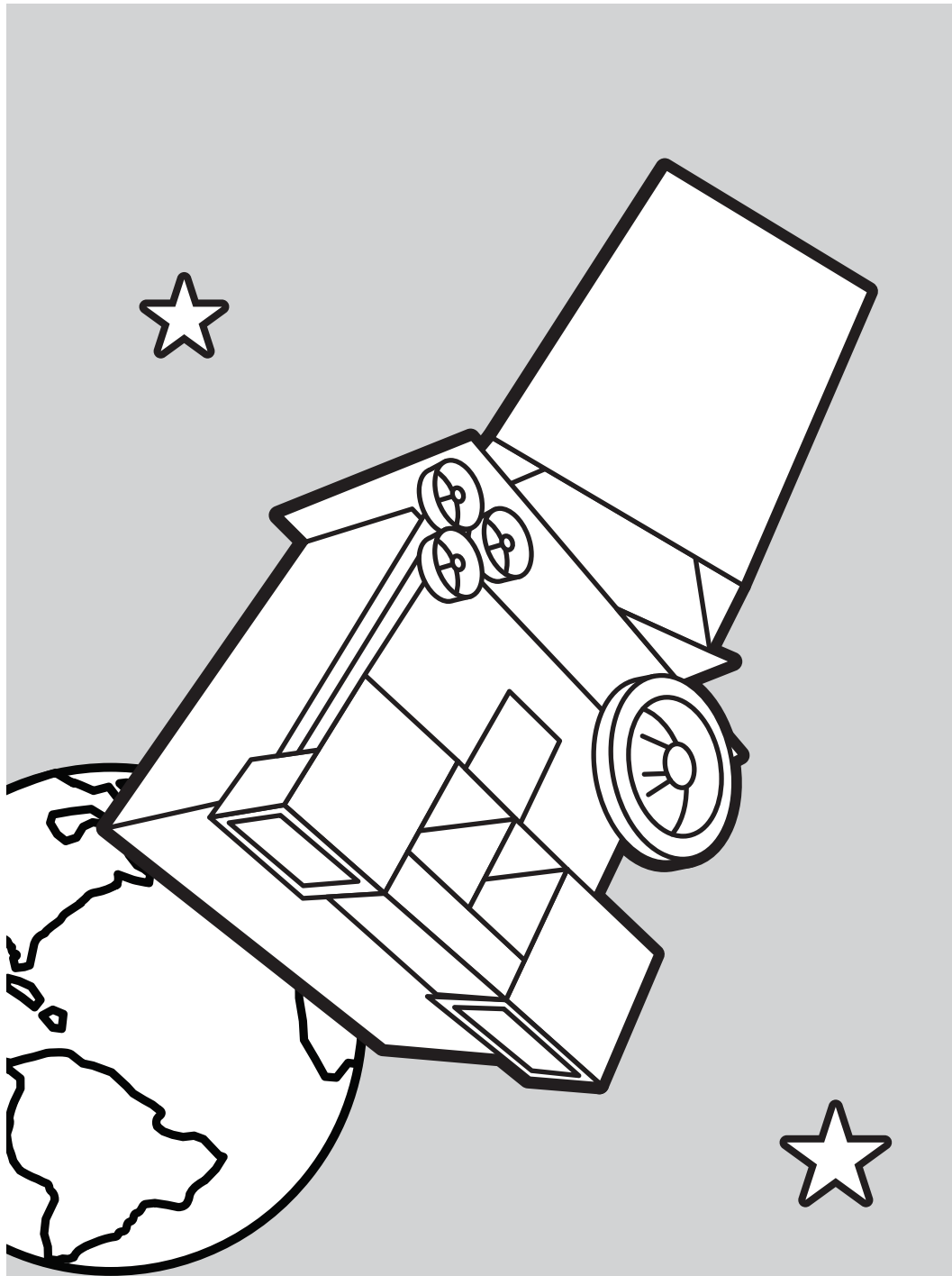
There are actually two GOES in orbit. One watches the West Coast of the United States. The other watches the East Coast.

The GOES take pictures all the time. They see storms forming over land and ocean. They take the pictures of clouds and hurricanes that you see on TV! The GOES help weather forecasters do their jobs.

NASA\*\* builds and launches these satellites.  
NOAA\*\*\* pays for and operates them.



- \* GOES stands for Geostationary Operational Environmental Satellite
- \*\* NASA stands for National Aeronautics and Space Administration
- \*\*\* NOAA stands for National Oceanic and Atmospheric Administration



GOES is like a big truck in space, carrying its special instruments to observe Earth.

## Time to Rhyme

Silent and soft,  
The snowflakes drift.  
They leave the world  
Wrapped up like a \_ \_ \_ \_.



Monday it's all rainy.  
Tuesday brings the sun.  
Wednesday is a snow day.  
Weather's lots of \_ \_ \_ !

GOES helps us know what kind of weather  
is on the way for Thursday, Friday, and  
beyond.

## Riddles

Why don't older people like jokes about snow?

**It's just a lot of skid stuff.**

Why can't you rely on snow during the winter holidays?

**Because it's so flaky!**

Why did the baker work outside on cold nights?

**So he wouldn't have to frost the cakes.**

What did the hurricane say to the GOES weather satellite?

**"I have my eye on you."**



**It's actually the GOES that has its eye on the hurricane!**

## Unscramble the Letters

Draw a line from the scrambled letters on the left to the word it spells on the right.

NIWD

AIR

ANIR

SUN

YSK

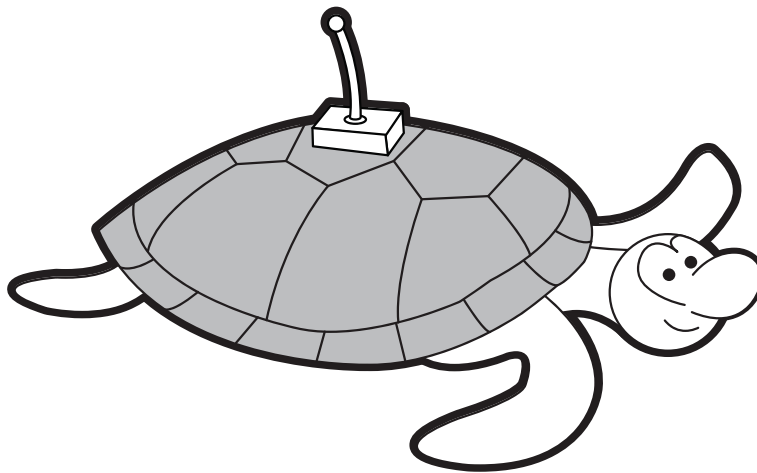
SKY

SNU

WIND

IRA

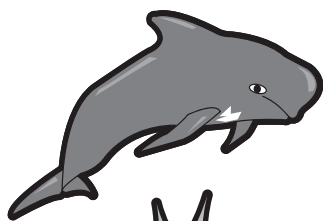
RAIN



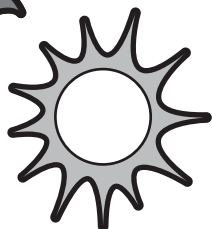
Satellites track some endangered animals, like this sea turtle.

## What is this?

Draw a line from the picture to the word that says what it is.



Sun



Earth



Clock



Whale

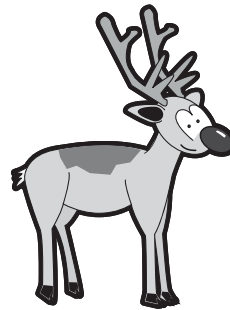
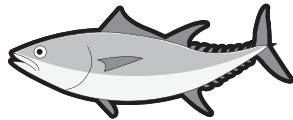
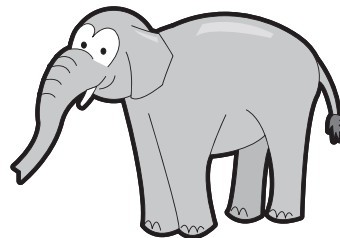
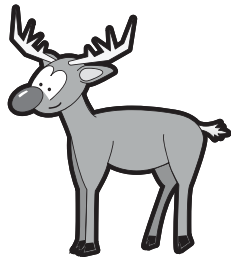
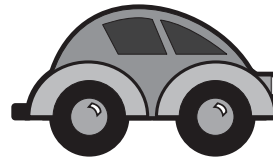
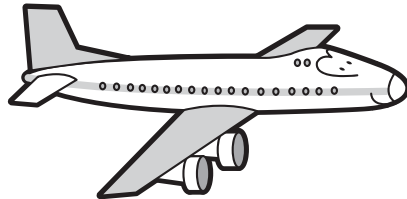
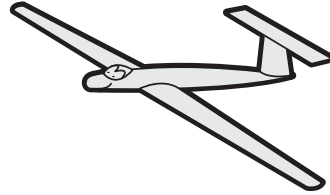
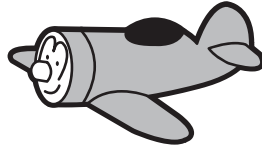


Duck

The National Weather Service tells everyone what kind of weather is on the way.

## What does not fit?

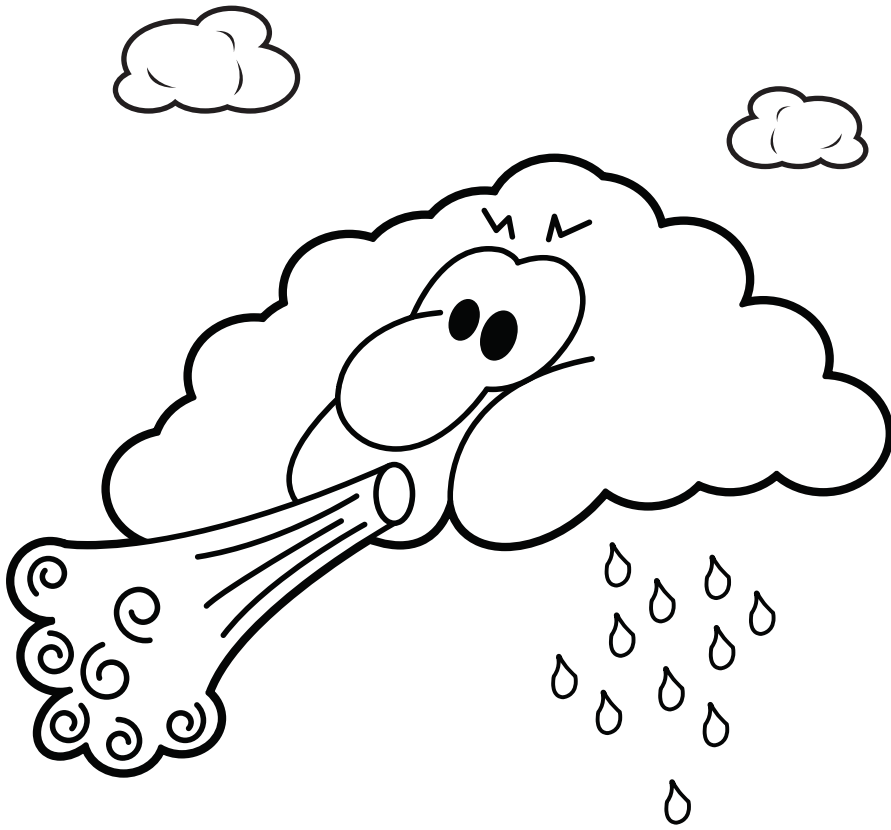
Circle the object that does not belong.



Satellites watch the weather over the whole Earth.

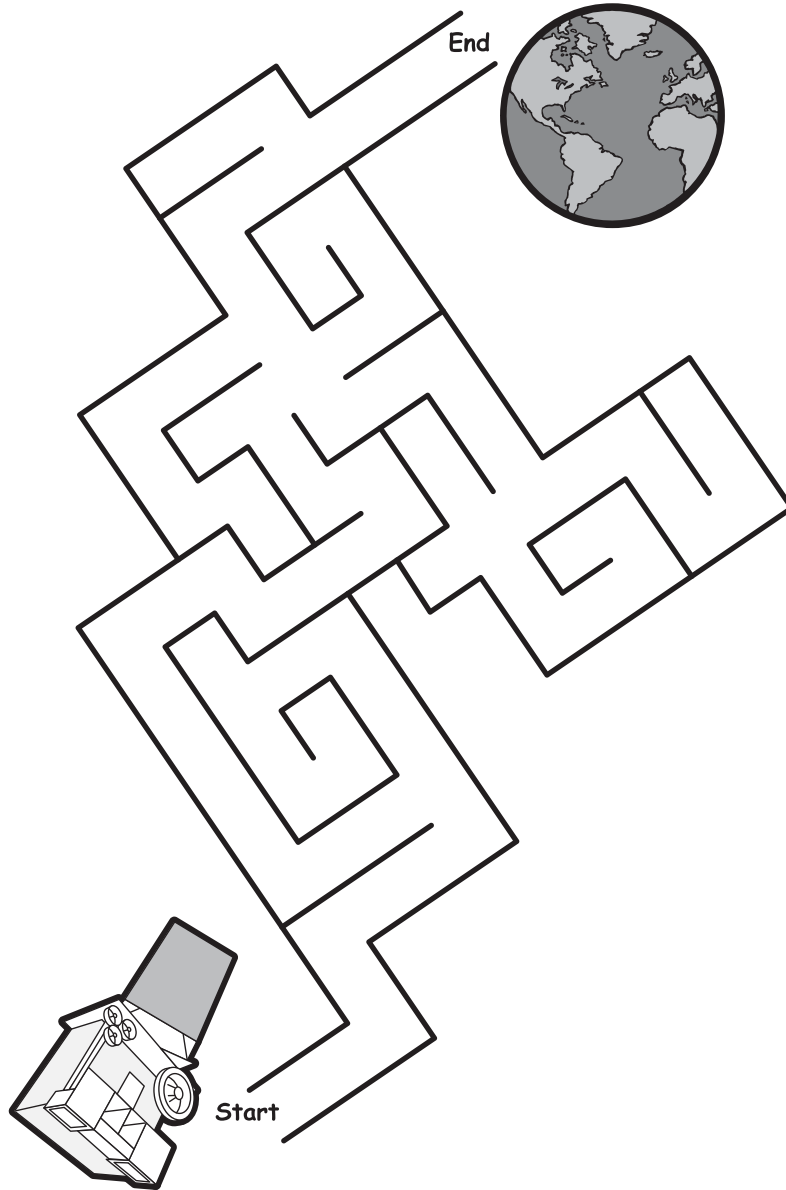


Color me



This big cloud is blowing up a storm...

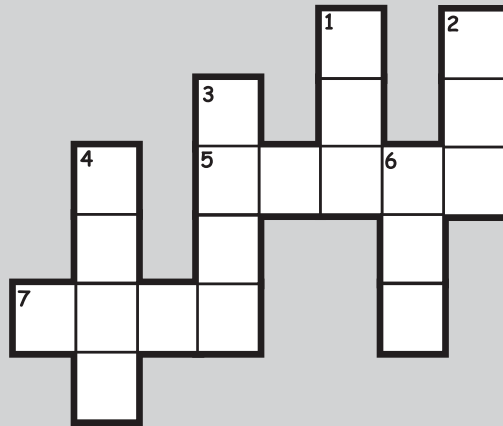
## Help GOES Find Earth



GOES and Earth are locked in a dance together.

## Earth Words

Fill in the words that fit the clues.



Across

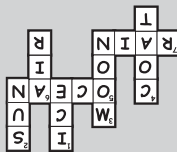


- 5 Water over most of Earth.  
7 Falls from the sky in wet drops.

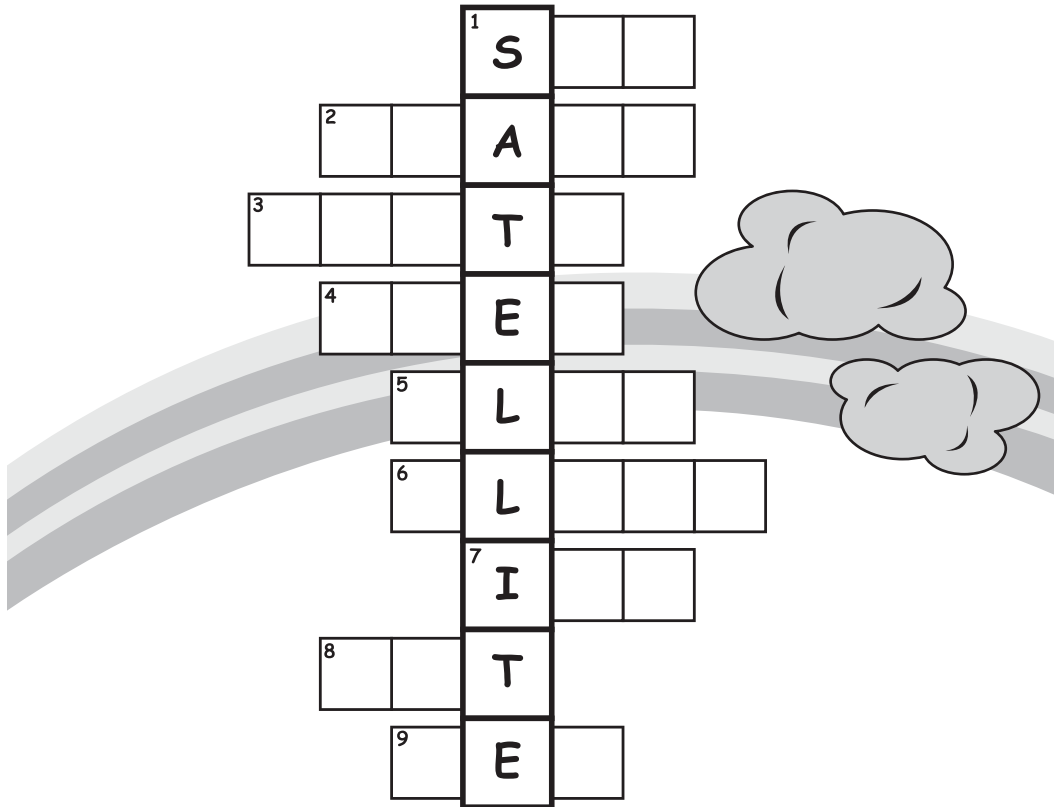
Down

- 1 Frozen water.  
2 Our own star.  
3 Bright and white and shines at night.  
4 Wear this if it is cold outside.  
6 What we breathe.

Satellites help us understand Earth better.



## Crossing Words



### CLUES:

- 1 After it rains, we may see a rainbow in the S \_ \_ .
- 2 The GOES satellite watches Earth from \_ \_ A \_ \_ .
- 3 The color of snow is \_ \_ \_ T \_ .
- 4 When it's hot, sit under a shady \_ \_ \_ E.
- 5 The color of the sky on a sunny day is \_ L \_ \_ .
- 6 The fluffy, white \_ L \_ \_ \_ looks like cotton.
- 7 When water freezes, it makes I \_ \_ .
- 8 In summer, the weather is \_ \_ T.
- 9 I was out in the rain, so my hair is \_ E \_ .

Satellites study weather, the oceans,  
the land, and the air.

## Find the Hidden Words

Find these words

HEAT  
WIND  
SMOG  
HUMID  
CLIMATE



The atmosphere is a very thin blanket around Earth, like the skin of an apple.

## Connect the Dots



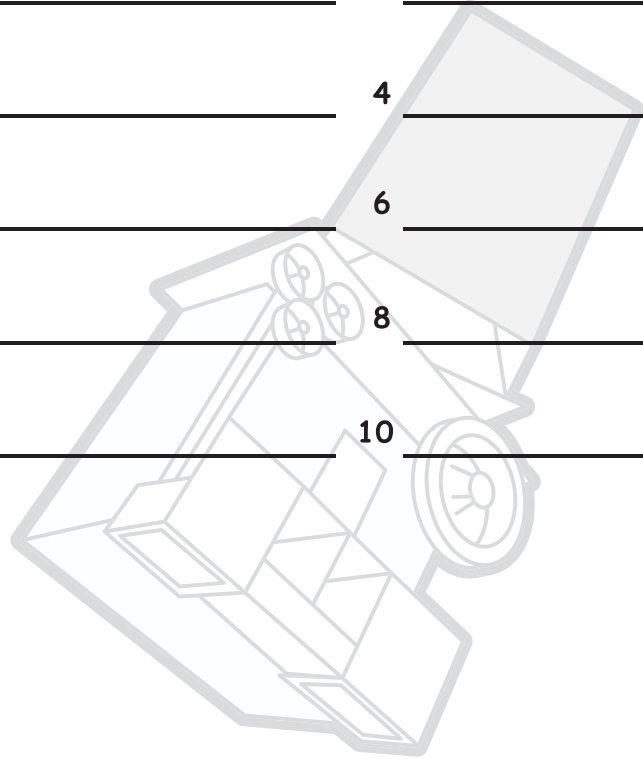
If you could throw a ball hard enough  
and high enough, it would go into orbit!

## Words in Words

How many words can you make with the letters in

weather satellite

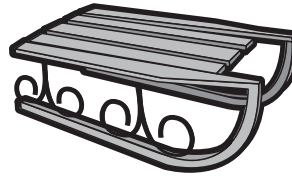
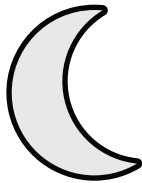
1	_____	2	_____
3	_____	4	_____
5	_____	6	_____
7	_____	8	_____
9	_____	10	_____



The GOES can see the size of a hurricane and where it is going.

## What GOES together?

Draw a line from one thing to the thing that goes with it.

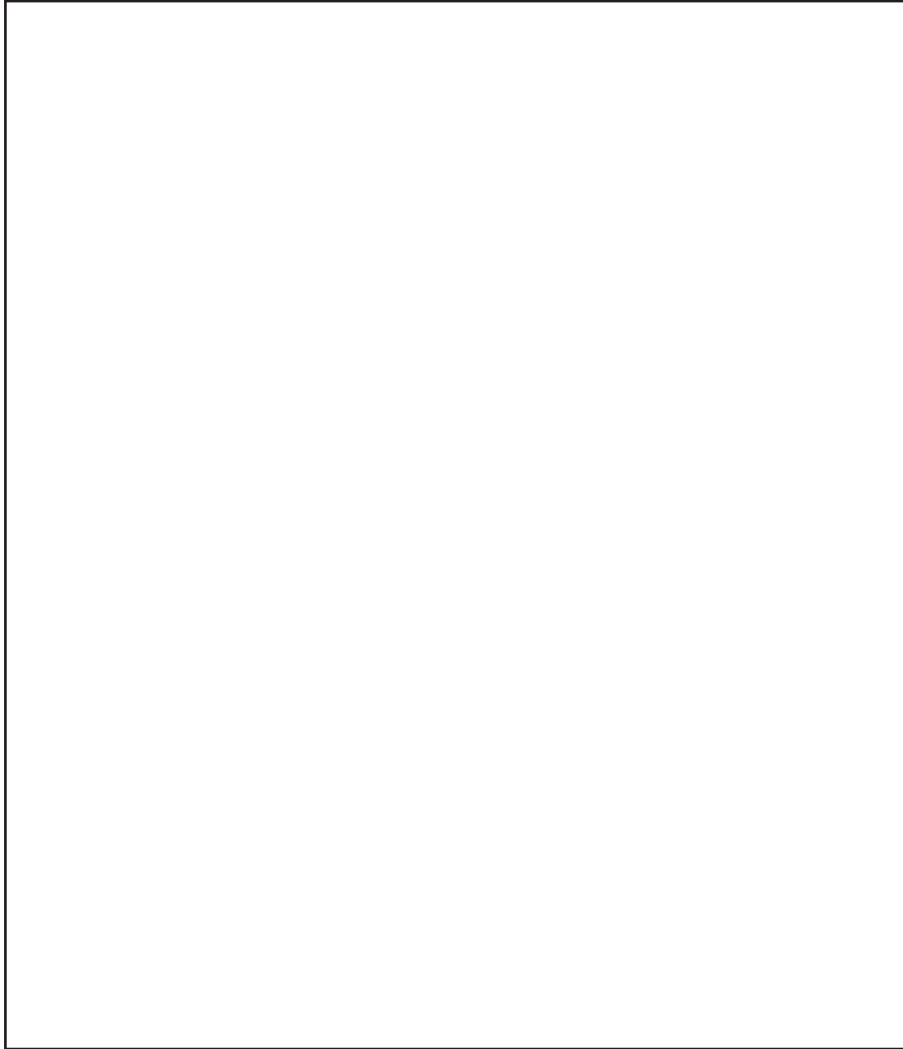


The GOES can sense temperatures on Earth's surface—from way up in space!

Answers: Cloud-Lightning, Snowman-Sled, Moon-Earth



**Draw Your Favorite Weather**



**Weather is an adventure!**