

#### My name:

## HAPPY NEW YEAR!

## FROM THE DESK OF WOODWORD

Have you made a New Year Resolution? My resolution is to become a better reader and with all the great features in this month's **Connect123**, I will get lots of practice.

Isn't it incredible that no two snowflakes are alike? William Bentley was a remarkable man and I'm going to see if I can identify different kinds of snowflakes. And there's another experiment to discover the difference between direct and indirect sunlight.

There's a story about a hippo and a tortoise becoming friends that warms your heart.

And we think Martin Luther King, Jr. Day should be a day ON and not a day OFF. You may have a day off school but this is a great day to join a volunteer group to help a local organization or get together with a neighbor who could use a hand.

Welcome to 2018. Let's resolve together to make this a great year.





#### Yaaaawn! What's different?

Look closely at these two pictures. How many differences can you find? Have a parent try. Who found more?





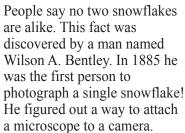
**Standards link:** Visual discrimination: Find similarities and differences in common objects.







### nowflake Mam



Bentley went on to photograph more than 5,000 snowflakes during his lifetime, never finding two alike.

Look closely: Find the differences in these two pictures.





Standards Link: Earth Science: Weather can be observed, written and described.



What we usually call snowflakes are little crystals of ice called snow crystals.

The water molecules in ice form a six-sided, or hexagonal, crystal. That is why most snowflakes have six sides.

Although no two snowflakes are exactly alike, their shapes do fall into several categories. Here are four kinds of snowflakes.



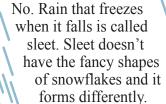


Stellar means "star-like" and dendrite means "tree-like." Put together it means these kinds of snowflakes look like stars and have branches like trees.



#### MOILON columns

Most snowflakes are this kind. The columns are hexagonal, like a wooden pencil. Can you find 4 or more hollow columns?





Here's how sleet and snow are made:

water

vapor























**SLEET** 

#### **SNOW**

## These crystals

have flat, plate-like arms or sections. Can you find at least 10 sectored plate snow crystals?



Not all snowflakes are thin flat plates or slender columns. Some snowflakes are made of many ice crystals jumbled together. Can you find 6 spatial dendrites?



Standards link: Investigation: Recognize similarites and differences in common objects.



## Sunny question

Why are sunny winter days COLD, while sunny summer days are HOT?

Winter expert

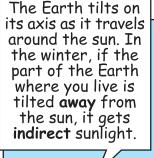
Dr. I. Cicle explains it all!



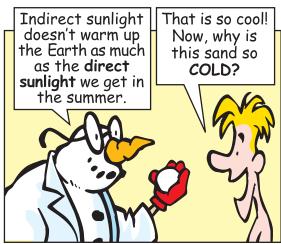












Standards link: Earth science: Students know that weather can be observed, measured and described; changes in weather and seasons are affected by the Earth's position.

#### **Experiment tells all**

Try this experiment to understand the difference between indirect and direct sunlight. Keep track of your work on a separate sheet of paper like the Scientist's Notebook.

#### Stuff you need:

- 2 metal pie tins or flat pans
- A sunny winter day
- Watch or clock

#### What to do:

- **1.** Lay one pan flat on the ground in the direct sunlight. *(Fig. 1)*
- **2.** Tilt the other pan on its side. Lean it against a rock or a shoe. This pan is being hit with indirect sunlight. (Fig. 2)
- 3. Wait three minutes.
- **4.** Which pan is warmer?



(Fig. 1) direct sunlight



(Fig. 2) indirect sunlight

#### 

#### **SCIENTIST'S NOTEBOOK Observation** Question **Hypothesis** Conclusion Which pan do What do you Which pan Was your vou think will think the was warmer in hypothesis answer to the correct? What feel warmer three minutes? did vou learn after three question is? minutes in the from this winter sun? experiment? pan in direct pan in direct sunlight sunlight pan in pan in indirect indirect sunlight sunlight



**Sun spot mystery** 

The sun is covered with spots! Use the spots to solve the mystery questions.

How far is the sun from the Earth? million miles

What is the diameter of the sun?

ンメア さむむ miles.

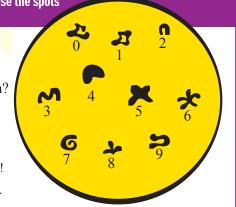
How long does it take the sun to make one complete rotation?



#### WARNING!

Never look directly at the sun as this can damage your eyesight!

Standards link: Earth science: Students know about the sun, planets and stars.



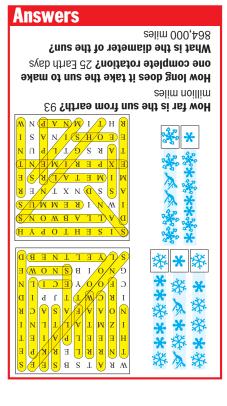
#### Word search Find the words by looking up, down, backwards, forwards, sideways and diagonally.

AXIS EXPERIMENT DIAMETER HYPOTHESIS			PA	LES PER ETAL N	S	SAND SHOE SNOV SUNL	: VBAI		SUMMER WINTER	ALIKE BENTLEY DENDRIT CAMERA	
;	S	I	S	Е	Н	T	О	P	Y	Н	WI
]	D	A	L	L	A	В	W	Ο	N	S	T 1
	Ι	W	N	I	R	Е	M	M	U	S	н
1	A	S	S	D	N	X	T	N	E	R	I 2
1	M	I	M	Е	T	A	L	R	S	E	N (
]	Е	X	P	Е	R	I	M	E	N	T	ΙΙ
,	Τ	A	R	S	G	T	L	P	U	N	C 1
]	Е	Е	Ο	Н	S	I	N	A	S	I	G 1
]	R	Н	T	I	M	N	A	P	N	W	S 1

ALIKE	FALL	PENCIL	STARS
BENTLEY	FROZEN	PLATES	TOOL
DENDRITES	ICE	SNOWFLAKE	WATER
CAMERA			

RATSBSEES NRRLERKPE EEELPAIET ZMTALTLNI OAAFASACR RCWTTJPID OOYECILN NOIBSNOWE LYELTNEBD

## Snowflake pattern time Draw the snowflake that comes next in each row. Standards link: Math: Extend simple patterns





Deseret News





East Midvale Elementary School managed to change their school grade from a "D" to a "B." Santa, Buddy the Elf and the Read Today team were so impressed that we decided to pay them a visit. These students worked hard, considering nearly a third of their students come from homeless shelters or hotels. The faculty of East Midvale Elementary focus on having a culture of caring and reading. Teachers are able to customize reading plans for each student while also encouraging parents to read to their kids after school. With that, they found that science and math scores also improved and the results are the best Christmas gift this community could have asked for.

#### Please send ideas, suggestions or information to: nie@deseretnews.com

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Salt Lake City, UT 84101 801-237-2172

#### **Learning buddy sign here**

I have completed \_ activities with my Learning buddy.

Learning buddy's signature



My name:

BIOGRAPHY



#### **Meet Ruby**

On Nov. 14, 1960, a little girl named Ruby Bridges walked to school past a screaming mob of angry white people. She had to be protected by four gun-toting U.S. federal marshals.

Why? She was doing something no other African American in her hometown of New Orleans had ever done before. She was going to school with white children.

#### COURAGE

#### Not welcome

For months, Ruby quietly walked up the steps of William Frantz public school, past youths who were chanting, "Two, four, six, eight! We don't want to integrate," past a woman threatening to "poison" her, past signs designed to terrify her. One woman had a baby-sized coffin with a black doll inside. "That really scared me," remembered Ruby.

Ruby's courage amazed and inspired people. Former First Lady Eleanor Roosevelt sent Ruby a letter. Circle every other letter to discover what she told Ruby in that letter.

## HBENCZAJLPLGENDMRI KADGTOWOVDQAHMTEPRDIVCSARN

Standards Link: History: Understand the accomplishments of ordinary people in historical situations.

#### PATIENCE

#### one at school

For young Ruby, the isolation was even worse than the threats. When the school's white parents pulled their children out in protest, she was left alone, day after day, with her white teacher, Barbara Henry.



Draw a couple of classmates sitting by Ruby to be her friends.

#### **Vocabulary Challenge**

**SEGREGATION** means the practice of separating people into groups, especially racial groups. Before 1960, schools in America were segregated. Can you guess what integration means?

- a. Remembering a name
- **b.** Bringing people together that used to be separated
- **c.** Excluding people based on race
- **d.** Organizing names alphabetically

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## **Martin Luther King, Jr.** Day of Service

Make your celebration of Martin Luther King, Jr. Day "a day on, not a day off." This year, thousands of people will do just that by volunteering.

## SEEDS OF LEARNING AND SERVICE

AMHERST, MA - Every spring, kids at the Common School in Amherst, plant pumpkins and proceed to learn how to care for them. And from these seeds come study and service.

In the fall, after they harvest the pumpkins, students practice math skills by weighing them and counting the seeds.

The learning continues as they measure ingredients to make dozens of loaves of pumpkin bread, which they donate to the nearby senior center.

Read the above article and identify each of the following:

WHO: WHAT:

WHEN: WHERE:

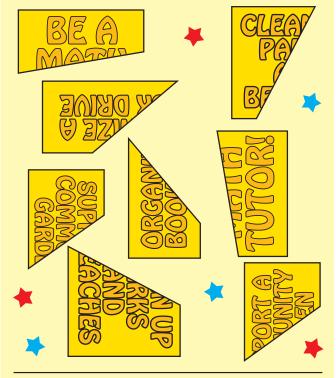
Standards link: Civics: Students understand the importance of volunteering as a characteristic of American society (e.g., people should volunteer to help others in their family, schools and communities).

#### Service ideas



The kids in Mrs. Kelsey's class painted some posters to give kids ideas about the kinds of things they can do to help in their neighborhood. But they fell off the line while drying and got mixed up.

Can you match the two halves of each poster?



Standards link: Language arts: Use reading skills and strategies to understand a variety of texts.



## What to do?

Each of these kids need some advice from you. Read each story and write down your advice. Talk about your advice with a parent. Do they agree with you?

#### Sticky problem

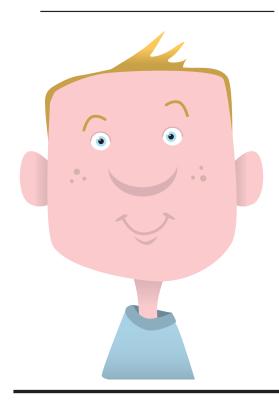
Evan collects stickers from the grocery store vending machine. Each one costs 50¢. He buys one each time his family shops, which is usually three times a week.

Evan earns \$3 a week pulling weeds in his neighbor's yard, so he spends half of his money each week on stickers and saves the rest in his piggy bank.

This week, the grocery store replaced the old sticker machine with a brand new one. The stickers are bigger, but they cost \$1 each. If he buys three, he'll spend all his money every week.

#### Q: What should Evan do to keep saving some money each

A:		





#### **Savings shortage**

David is trying to save money to buy a new LEGO set that costs \$29. He gets an allowance of \$5 every Friday afternoon from his mom.

David tries to save at least \$3 every week. He spends about \$2 when he visits the video arcade on Sunday afternoons. But sometimes he'll spend more than he planned to trying to top his best score.

Last Sunday, he spent \$8.50, which ate into his LEGO savings. Now he only has about \$4 saved up for the LEGO set.

#### Q: What can David do to save the \$29.00 faster?

.=		

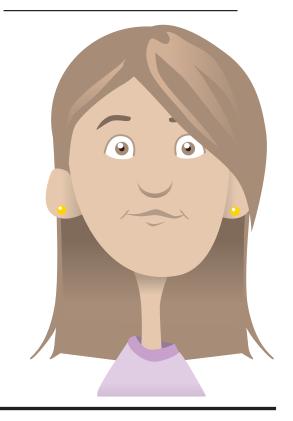
#### **Bike lane pain**

Maria walks and feeds her Aunt Meridith's dog, Zinger, every day after school. Maria gets \$2 per day for taking such good care of Zinger.

Maria wants a new bike that costs \$75. If she saved all her money each week, she could buy the bike in about two months. But Maria downloads music from her favorite bands at \$1.30 per song a couple of times a week. She also buys a smoothie for \$3.95 on Saturdays with her friend Katie. Sometimes they go to a movie, which costs \$7 per ticket.

#### Q: What advice would you give Maria about how to reach her goal of buying that new

A:	



#### **Trash-bag team**

The volunteer coordinator asked four students to collect as many bags of garbage as they could find in the park. How many did each student find? Use the clues to complete the chart.

- The 4 students filled a total of 15 bags.
- No one filled more than 7 bags.
- None of the students filled the same number of bags.
- Cassidy filled 5 bags.
- Owen filled 3 less than Cassidy.
- Sam filled the most bags.

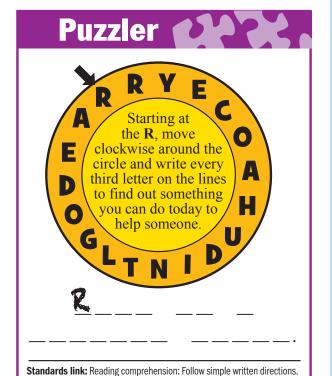
#### Standards link:

Mathematical reasoning: Use a variety of strategies to solve problems.



Students	Bags
CASSIDY	
OWEN	
BODIE	
SAM	
TOTAL	15





#### Word search

Find the words by looking up, down, backwards, forwards, sideways and diagonally.

sideways and diagonally.									
ALON BRIDO COUR CREA DOLL	GAMES LADY RACES RACIAL RECESS				SIGNS				
В	E	S	T	A	Е	R	Н	T	S
С	R	Е	A	T	Е	G	U	E	I
S	О	L	L	Ο	D	N	M	В	N
I	Е	U	N	Е	G	A	R	R	Y
S	Е	G	R	Е	G	A	T	E	D
О	F	A	D	A	C	A	N	C	A
Е	C	W	S	Ι	G	N	S	Е	L
S	E	C	A	R	R	Е	W	S	O
R	Α	L	0	N	Е	В	L	S	D

**Standards Link:** Letter sequencing. Recongized identical words. Skim and scan reading. Recall spelling patterns.

Please send ideas, suggestions or information to: nie@deseretnews.com

I have completed \_\_\_\_\_ activities with my Learning Buddy.

**Learning buddy sign here** 

Learning buddy's signature Date

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#### **CHECK IT OUT**



#### The City Library

This November the librarians at the Salt Lake Public Library believe these books to be award worthy. What do you think? Check out their picks and start reading!

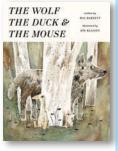
"After the Fall," by Dan Santant. Everyone knows that when Humpty Dumpty sat on a wall, Humpty Dumpty had a



great fall. But what happened after?

"The Wolf, the Duck and the Mouse," by Mac

by Mac
Barnett. This is
a story about
a duck and
mouse who
get swallowed
by a wolf, and



then decide to live in his belly.

**"Flashlight Night,"** by
Matt Forrest
Esenwine.
Three children
use a flashlight



to light a path around their backyard at night; in the flashlight's beam another world looms.

"This Is How We Do It," by Matt Lamothe. Follow one day in the real lives of seven kids from around the world — Italy, Japan, Iran, India,



Peru, Uganda, and Russia!

#### "Here We Are: Notes For Living

On Planet Earth," by Oliver Jeffers. Jeffers offers a rare personal look inside his own hopes and wishes for his child



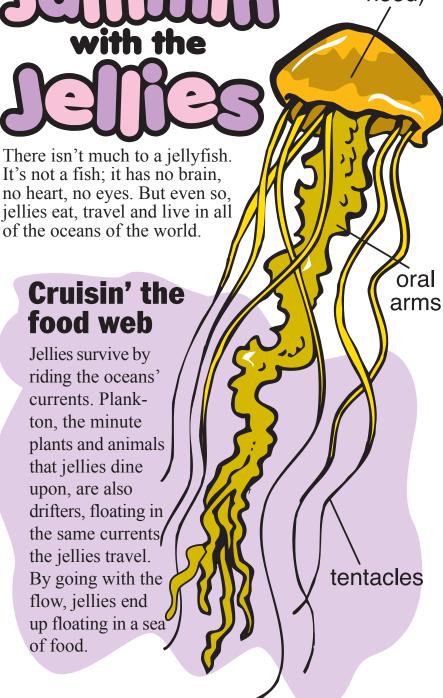
#### My name:

**ANIMAL** 

bell (or hood) There isn't much to a jellyfish. It's not a fish; it has no brain, no heart, no eyes. But even so,

Cruisin' the food web

Jellies survive by riding the oceans' currents. Plankton, the minute plants and animals that jellies dine upon, are also drifters, floating in the same currents the jellies travel. By going with the flow, jellies end up floating in a sea of food.



## **How a Jellyfish stings**

Read how a jellyfish stings. Number the pictures from 1 to 4 to show the stinging steps.

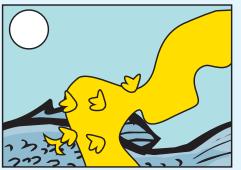
- 1. A tentacle contains many stinging cells.
- 2. A fish brushes against a tentacle. The stinging cell on the jellyfish's tentacle bursts open and launches the stinger into the fish's skin.
- 3. A barb on the stinger holds it in place.
- **4.** The stinger shoots a long tube into the wound and injects a poison through it.

**Ancient Animals:** Older than sharks and dinosaurs, jellyfish have lived on earth for over 650 million years.

Standards link: Life science: Living organisms have distinct structures that serve specific functions in survival











"jelly" is transparent, so the animals can almost disappear a useful trick in the middle of the ocean. where there is no

place to hide.

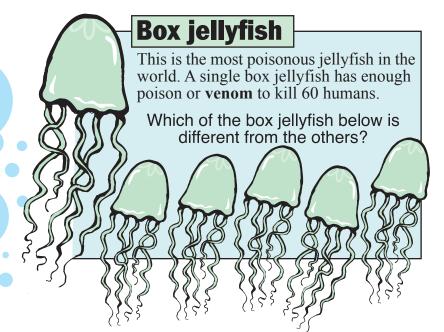
**How many jellyfish** 

the life of different types of plants and animals.

do you see here?



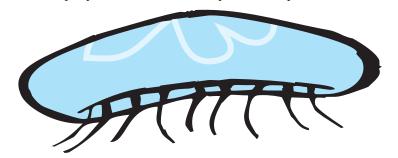
Standards link: Life science: Living things are found almost everywhere in the world and distinct environments support



**Lion's Mane jellyfish** Replace the With missing three meters long and words. covered with stinging cells, it's not to get too close to the Lion's Mane jellyfish. Its can be up to 80 inches across (200 cm), making it one of the largest of jellyfish. SPECIES BETTER TENTACLES

#### **Moon jellyfish**

Its saucer top grows to 16" wide and has many short tentacles. This is the jelly that most commonly washes up on beaches.



Standards link: Life science: Understand diversity within species.

#### **Answers**

How many jellyfish do you see? 13

of the largest <u>SPECIES</u> of jellyfish. close to the Lion's Mane jellyfish. Its  $\overline{BODY}$  can be up to 80 inches across (200 cm), making it one With TENTACLES up to three meters long and covered with stinging cells, it's BETTER not to get too

Lion's Mane jellyfish

## Owen and Mzee: A most unusual friendship (A true story!)

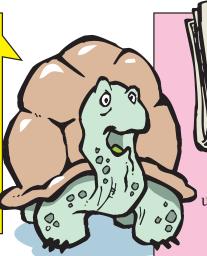
**World News Tribune Herald** 

TSUNAMI'S

MASSIVE

DESTRUCTION

Hi there! My name is Mzee. I'm about 130 years old (I don't bother to keep track of my birthdays anymore). Here's the story of how I met my best friend named Owen.

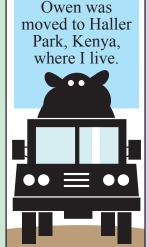


In Kenya, a baby hippo was left stranded on a coral reef. He was too tired and frightened to get back to shore by himself. Hundreds of villagers and visitors worked together to rescue the young hippo.

Back in 2004, there was a terrible tsunami that caused unbelievable damage and loss of life in Southeast Asia and Africa. You or your parents probably read about it.



A man
named Owen
Sobien was
able to tackle
the slippery
hippo long
enough for
others to
drape a net
over him.
The hippo
was named
Owen in his
honor.



Now, I've always preferred to be by myself. But Owen just kept following me around.

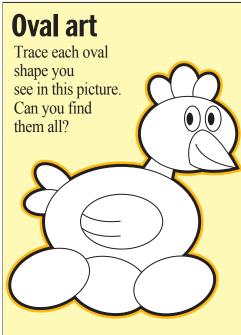
If I walked away, he'd follow me. At first, I felt a little embarrassed and annoyed when he would crouch beside me like a baby hippo does with its mom.

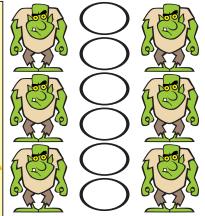
But Owen was a nice enough kid. And without a mother, he needed someone to show him how to find food, so I did.



People wonder why we became such close friends. Some think it's maybe because my round shell looked a little like another hippo to Owen. What do YOU think?





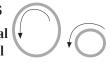


#### My rhyme time

Old King Cole
Was a merry old soul,
And a merry old soul was he;
He called for his pipe,
And he called for his bowl,
And he called for his fiddlers three

#### My letters

O is for Oval
o is for oval



How many words or pictures can you find on this page that have the sound that the letter **O** makes in the word **oval**?

**Learning buddies:** Read the two phrases aloud. Have your child read with you. Trace the uppercase and lowercase letter N. Say the letter as you trace it.

#### My numbers

How many



Learning buddies: Trace and say the number. Read the questions. Touch and count to find the answers.

#### **1.** Lives to be 200 years old. 9 + 7 = \_\_\_\_\_

2. Lived with the dinosaurs. 19 - 4 =

Hippo or tortoise?

Do the math to find out which facts describe a

more than 15, it describes a tortoise. If the

hippo and which describe a tortoise. If the answer

answer is between 10 and 15, it is true for both

is less than 10, it describes a hippo. If the answer is

**3.** Is an herbivore. 6 + 5 = \_\_\_\_\_

hippos and tortoises.

- **4.** Likes to swim. 7 + 5 =
- **5.** Its closest living relative is a whale.

3 + 6 = \_\_\_\_

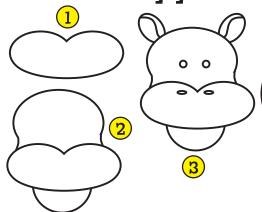
**6.** Can run faster than a human. 4 + 3 =

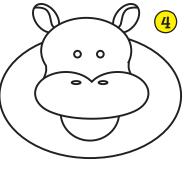




Standards link: Number Sense: Add and subtract whole numbers.

## Draw a hippo!

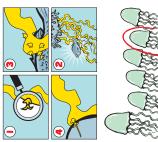




Standards link: Visual arts: Know various purposes for creating visual works of art

# 000

#### Answers



= C + Y (Hippd)

## **Read Today Christmas Project**











The Read Today team helped spread cheer to a few hundred Salt Lake families last month. Our team visited The Neighborhood House, which helps support low-income families, for Parent

Involvement Night.

And that's not all! We teamed up with the KSL morning team who helped assemble boxes of holiday dinners then delivered those 210 gourmet meals, purchased by Elements Capital, to The Neighborhood House. The Read Today team, along with Santa, gave every child a Christmas book and a candy cane. Families were able to spend time together, decorating gingerbread houses in their classrooms and were paid a visit by Santa himself! Families who attended left with a gingerbread house, a gourmet holiday meal, a Christmas book and smiles on their faces. We hope all our readers had a wonderful holiday break.

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#### **Learning buddy sign here**

I have completed \_\_\_\_\_ activities with my Learning Buddy.

Learning buddy's signature

Date