In 2018, there is a really big celebration going on. It is a celebration of international friendship. International Friendship is the reason behind the Winter Olympic Games. This year the Games will be held in South Korea. And, you can see how the science topics you study at school help Olympic athletes reach the top of their sports.
2018 Winter Olympics

This month, the world turns its eyes on the South Korean region of PyeongChang.

This is where the 2018 Winter Olympics are being held from Friday, February 9 through Sunday, February 25.

Over 50,000 athletes from more than 90 countries will compete in winter sports like skiing, skating, curling, ice hockey, snowboarding and more!

Meet the Mascot

Soohorang is the mascot of the Olympic Winter Games in PyeongChang 2018. Soohorang is a white tiger, which is considered Korea’s guardian animal.

In Korean, “Sooho” means protection. This part of the name was chosen to show that the games will offer protection to the athletes, spectators and other participants in the 2018 Games. “Rang” comes from the middle letter of “Ho-rang-i”, the Korean word for tiger.

2018 Paralympic Games

The Winter Paralympic Games is an international sporting event where athletes with physical disabilities compete. This includes athletes with mobility disabilities, amputations, blindness, and cerebral palsy. The Winter Paralympic Games are held every four years directly following the Winter Olympic Games and are hosted by the city that hosted the Winter Olympics.

The Winter Paralympic Games also have a mascot. Bandabi, is the mascot of the Winter Paralympic Games. It is an Asiatic black bear. The bear is a symbol of strong will and courage in Korea.

“Banda” means half-moon, which is the shape of the white mark on the bear’s chest and “bi” means to celebrate the Games.

WINTER OLYMPICS SCHEDULE

Use the information below to complete the calendar to show when some of the most popular competitions begin. Cut out each event stamp and paste it on the calendar where it belongs.

<table>
<thead>
<tr>
<th>February 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNDAY</td>
</tr>
<tr>
<td>1</td>
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<td>4</td>
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<td>11</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>25 <strong>CLOSING CEREMONIES</strong></td>
</tr>
</tbody>
</table>

For a full schedule of events go to: pyeongchang2018.com/en/schedule
The science of the games

A bobsled team starts the race by running and pushing their sled the first 50 meters of the track. By pushing their feet against the track as they run, they create a force that moves their sled.

The gas pedal in a car is called an accelerator because pushing on it makes the car accelerate or go faster.

The racers work to get the most acceleration they can before jumping into the sled for the rest of the race.

Gravity has the same amount of pull on all of the sleds in a race. That means that the bobsledders must use their knowledge of science to be the fastest.

Bobsled races started in Switzerland in the 1890s. It was called bobsledding because the racers bobbed back and forth to increase their speed.

Today bobsled racers use science and well-engineered gear and sleds to maximize their speed. (Another name for bobsled is bobsleigh.)

A bobsled team uses special sleds, helmets and suits that are engineered to reduce drag.

Smooth move!

Drag is an opposite force that slows a moving object. Streamlined and smooth objects have less drag than jagged or flat ones.

What a drag!

A sled with a flat front end would move much slower because there would be more drag.

When the bobsled moves against the ice and through the air, it causes friction, which causes drag and slows the moving bobsled.
Put a Spin On It

Olympic figure skaters try to jump in the air and get in more spins with their triple axels and quadruple toe loops.

They make it look easy, but make no mistake, leaping into the air, twirling and landing gracefully takes hours of practice and a knowledge of science.

In order to twirl well, a skater needs velocity, or speed. A skater uses his or her feet to push off the ice to accelerate. Once the right velocity is reached the skater will jump and twirl. The more velocity a skater gets for the jump, the higher he or she will go.

To get more spins, a skater needs to twirl as fast as possible. To increase their twirling speed, a skater starts a twirl with arms out wide. Keeping the body straight and bringing the arms in close to the body causes a skater to twirl faster. This is a scientific principle called the conservation of angular momentum.

My letters

P is for Penguin
p is for penguin

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

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

My numbers

How many pineapples?
How many penguins?
How many pumpkins?

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

My rhyme time

Pablo Penguin loved sheets of ice
Every day he’d skate them twice.
He loved the chill upon his nose
And the frigid feeling in his toes!

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

If you would like to receive FREE copies of Connect 1-2-3 for your classroom, order on the Web at deseretnews.com/nie. Connect 1-2-3 is a FREE monthly educational section available only to schools through the Deseret News.

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801-237-2172

Learning buddy sign here
I have completed ________ activities with my learning buddy.

Learning buddy’s signature
Date
My name: _______________________________  _______________________________

LEGEND

rock  hammer  drill  bluebirds  machine

/Some who tell the tale say that John Henry worked so hard he broke his heart. When the contest was done, he laid down his hammer and died. Some say that to this day, when the ______________ sing, you can hear John Henry's hammer ring.

John Henry's hammering has shaken a few words out of his story. Replace each blank line in the story with one of the words above so that the story makes sense.
Rosa Parks
Mother of the Civil Rights Movement

Rosa Parks once said, “I believe we are here on the planet Earth to live, grow up and do what we can to make this world a better place for all people to enjoy freedom.”

Connect123 introduces you to Rosa Parks, considered by many to be one of the most important citizens of the 20th century.

INTEGRITY
Meet Rosa

Rosa McCauley Parks grew up in a time when it was legal to discriminate against black people in the United States. In 1924, she went to a store to buy a soda. The clerk at the store told her, “We don’t serve sodas to colored people.” While Rosa knew the clerk’s refusal was legal, she also knew it was wrong.

Today, because of laws Rosa Parks helped to change, it is illegal to refuse to serve a customer based upon skin color.

“Differences of race, nationality or religion should not be used to deny any human being citizenship rights or privileges.”
– Rosa Parks

Rosa was born in 1913. Hold old was she when she was denied the right to buy a soda? To find out, add up the numbers on the bottles of soda.

2 3 2 3 1

Standards Link: History: Students understand the importance of individual action and character.

Differences and similarities
Kevin and Kyle are best friends. Put a check next to each thing they have in common.

Kevin’s Favorites:
- Football
- Soccer
- Sports section
- Harry Potter
- Camping
- Pizza
- Math
- Dogs
- Hip Hop
- Oranges

Kyle’s Favorites:
- Baseball
- Soccer
- Sports section
- Star Wars
- Camping
- Pizza
- History
- Cats
- Hip Hop
- Bananas

Standards link: History: Explain how demands of African-Americans helped produce a stimulant for civil rights.

COURAGE
A Movement is Born

In 1955, Rosa Parks was riding home on a bus after a long day of work. She was very tired. She got on the bus and sat in an empty seat.

In those days, Rosa’s hometown of Montgomery, Ala. had a law: if there weren’t enough seats on the bus for white people, black people were required to surrender their seats to them. When the bus filled, the white people expected Rosa to get up from her seat.

Rosa didn’t think it was fair that she had to give up her seat because she was African-American, and she didn’t want to be treated unfairly any longer. She said, “No.” Rosa Parks was arrested and jailed for not giving up her seat.

When the black people in Montgomery heard what had happened, they decided as a group to boycott, or stop riding all local buses, until the law was changed.

Read this article, then number the pictures in order.
A Salute to the Gooey Greatness of Peanut Butter

Some say the great American scientist George Washington Carver invented peanut butter. Others say it was invented in 1890 when St. Louis doctor Percy L. Crosby, created it to give his patients an easy-to-digest, high-protein food. By early in the second decade of the 1900s, there were dozens of companies making peanut butter.

Standards link: Visual discrimination and perception.

Peanut professor

George Washington Carver was born a slave, but he grew up to be one of America’s greatest scientists. He invented more than 300 products made from peanuts!

It was hard for a black child to get into school when George was young. But he never gave up. He eventually finished school and got a job as a teacher at a school in Alabama.

He wanted to help poor farmers. He told them to grow peanuts. The farmers thought peanut plants were weeds.

George invited some farmers to lunch. They had soup, mock chicken, creamed vegetables, bread, salad, ice cream, cookies and coffee.

Imagine their surprise when George told them that everything was made with peanuts!

Standards link: History: Students understand the importance of individual action and how heroes from the past have made a difference in others’ lives.

Goofy goobers

Can you find the following pictures hidden in the peanut pile?

- Bowling Pin
- Bottle
- Fish
- Moon
- Key

Help Pinky Pachyderm find his PB&J

Standards link: Students use eye-hand coordination to solve puzzles.
Hammer math

They say John Henry hammered his way through the mountain with a 20-pound hammer in each hand. Circle the numbers on each hammer that add up to exactly 20.

12 2
5 8 4
6 3
9

Word search

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

LEGENDS   TUNNEL   GREW   RAILROAD
HAMMERS   STEAM   TRAIN   HAND
MOUNTAINS   DRILL   JOHN   BUSTED
MACHINE   CONTEST   HENRY

L B M L Y R E H M
D U O W L E N N U T
A C U E E I G E L N
O T N S H R R E D S
R E T C T O G D A N
L D A S R E M M A H
I M I M I A R T O
A E N D N A H M R J
R T S E T N O C I C

PERSISTENCE

The struggle for change

During the Montgomery ________ Boycott, Rosa Parks and her family received threats. She was fired from her job as a seamstress. Even so, she never stopped working for racial ________.

For 382 days, the black people of Montgomery ________ ride the bus, and the bus company lost a lot of money. Finally, the law was changed. In December of 1956, the Supreme Court decided that bus segregation ________ the constitution. People of all races banded together to work for equal treatment for all people in a called the Civil Rights Movement. This led to the Civil Rights Act of 1964, which gives all Americans, whatever their race, nationality or religion, equal ________ under the law.

Gober goo

Peanut butter clay

It’s fun to make and eat!

1 cup peanut butter
1 cup light corn syrup
1 ¼ cup powdered sugar
1 ¼ cup granulated sugar

Mix the ingredients. Then roll, stretch and mold the clay into balls, snakes, flowers, dinosaurs and more!

Find the two gober guys that match.

Standards link: Number sense: Compute sums to 20.


STANDARDS LINK:

Number sense: Compute sums to 20.

Word search

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LEGENDS   TUNNEL   GREW   RAILROAD
HAMMERS   STEAM   TRAIN   HAND
MOUNTAINS   DRILL   JOHN   BUSTED
MACHINE   CONTEST   HENRY

L B M L Y R E H M
D U O W L E N N U T
A C U E E I G E L N
O T N S H R R E D S
R E T C T O G D A N
L D A S R E M M A H
I M I M I A R T O
A E N D N A H M R J
R T S E T N O C I C

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Standards link: History: Examine the roles of civil rights advocates.

Answers

How old was Rosa Parks when she was arrested?

 standards link: Reading comprehension: Students follow simple written directions.

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

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NIE director:

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The City Library

This month the librarians at The City Library have chosen books honoring Black History Month.


“Before She Was Harriet,” by Lesa Cline-Ransome. A poem honors a woman of humble origins whose courage and compassion make her larger than life.

“Let the Children March,” by Monica Clark-Robinson. 1963 Birmingham, Alabama, thousands of African American children volunteered to march for their civil rights after hearing Dr. Martin Luther King Jr. speak.

“Be a King: Dr. Martin Luther King Jr’s Dream and You,” by Carole Boston Weatherford. Dr. King’s example encourages a new generation of children to take charge and change the world . . . to be a King.

Is cheaper always better?

Ethan got a gift card for his birthday. Which of these T-shirts should he buy? Spending money isn’t always as simple as it seems.

**QUALITY**
- Does it seem sturdy and designed to last?

**PRICE**
- Does the price seem fair or is it too high?

**STYLE**
- Are logos, characters and other extras important to you?

**COMPARE**
- Is there something similar or is it unique?

No one likes to spend more money than is necessary. When you go shopping, there are a lot of things to consider.

First, are you spending more than you can afford? Setting a budget before you get to the store—and sticking to it—can keep you from overspending.

Next, look at the quality of the item you’re buying. Is the more expensive item better made than a cheaper version? If so, it might last longer and is a better value. Or is the more expensive item pricier only because it is cool and trendy?

Thinking about what’s most important to you is how you decide the best value when making a purchase. It’s the smart way to spend!

**Value:**
- Worth of something compared to the price paid for it
- Importance of something
- Usefulness of something

Which shirt would YOU choose? Write your reasons here to help me decide:

<table>
<thead>
<tr>
<th>BIKE</th>
<th>COLOR</th>
<th>PRICE</th>
<th>QUALITY</th>
<th>BRAND</th>
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<th>CLOTHES</th>
<th>COLOR</th>
<th>PRICE</th>
<th>QUALITY</th>
<th>BRAND</th>
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<th>FLAVOR</th>
<th>BRAND</th>
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<th>MUSIC</th>
<th>POPULARITY</th>
<th>STYLE</th>
<th>LYRICS</th>
<th>VOCALS</th>
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**Polar Bears**

Big and white, fluffy and furry, these are adjectives that describe a polar bear! Can you think of other adjectives that would describe this animal?

Polar bears love fish! How many fish can you catch on this page?

How polar bears stay warm

Polar bears live on ice near the North Pole in the Arctic, which is covered in ice and surrounded by very cold water. But that doesn’t bother a polar bear.

In each box, write the letter that comes before the letter at the bottom of each box to find a couple of cool ways these fluffy fellows stay warm.

<table>
<thead>
<tr>
<th>G</th>
<th>A</th>
<th>B</th>
<th>U</th>
<th>A</th>
<th>B</th>
<th>O</th>
<th>D</th>
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</tbody>
</table>

Polar bear fur is NOT white!

Each hair shaft is transparent with a hollow core that scatters and reflects visible light, much like what happens with ice and snow, giving it a bright white appearance.

How polar bears stay warm

In January, the average temperature in the Arctic ranges from a chilly 0°C to -34°C (32°F to -40°F).

In July, the average temperature range is from –10°C to 10°C (14°F to 50°F).

Color the graph to show the temperature range in each month using Celsius.

30°C | 20°C | 10°C | 0°C | -10°C | -20°C | -30°C | -40°C | -50°C

January | July

Very Special Fur

Polar bears have two types of fur: long oily guard hairs and short insulating hairs.

The long, oily guard hairs are tiny, hollow tubes that trap warmth and hold it close to the skin. Their oily surface keeps polar bears dry.

Under the guard hairs is a layer of dense, short, soft hairs that trap heat close to the skin, like thermal underwear.

Polar bear paws

Polar bear paws can grow to be 12 inches across (31 centimeters) and help distribute weight when treading on thin ice.

When swimming, their broad forepaws act like large paddles and the hind paws serve as rudders for steering.

Black footpads on the bottom of each paw are covered by small, soft bumps known as papillae. Papillae grip the ice and keep the bear from slipping. Tufts of fur between their toes and footpads may help with purchase as well as can their claws.
Puzzler

Polar bear true or false

These statements are either all true or all false. Check your answers by adding up the numbers next to each of your answers. If the total is 33, you’ve got it right!

- Polar bear young are called cubs.
  - TRUE (10)
  - FALSE (8)

- Polar bear cubs are born without hair and are blind and deaf.
  - TRUE (16)
  - FALSE (7)

- A polar bear’s nose can smell a seal on the ice 20 miles away!
  - TRUE (5)
  - FALSE (9)

- Polar bear skin is black.
  - TRUE (2)
  - FALSE (12)

Standards link: Reading comprehension: Follow simple written directions.

Word search

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

REFLECTS FOOTPADS THERMAL HOLLOW ARCTIC POLAR BEARS LAYER WHITE GUARD HAIRS DENSE TUFTS OILY PAWS


What did one lightbulb say to the other on Valentine’s Day?

Cross out every other letter. Then, write the remaining letters on the spaces below.

KIWLBOTVG EPYVOJUSW DAKTMTLS JAVNCDDHW MADTRTYS

FIVE of these: 🌸 FOUR of these: 🌻 FOUR of these: 🌻 THREE of these: 🌸 TWO of these: 🌻 TWO of these: 🌸

A 🌸 B 🌸 C 🌸 D 🌸

CORRECT INCORRECT CORRECT INCORRECT CORRECT INCORRECT CORRECT INCORRECT

Only two of these Valentines are exactly alike. Can you find them?

Be My Valentine! Be My Valentine! Be My Valentine! Be My Valentine! Be My Valentine! Be My Valentine!
### FEBRUARY 2018

#### Sunday
- Tick the box on each day when you have completed 20 minutes of reading. Children who develop a love of reading will become better students and build a better future.

#### Monday
- **How many hearts can you find on this page in 60 seconds?** Now have a friend try. Who found the most?

#### Tuesday
- The February flower of the month is a violet. Draw a bouquet of violets and give it to your mother or grandmother.

#### Wednesday
- **Who is your favorite president?** Find out about past presidents at whitehouse.gov/kids Presidents Day.

#### Thursday
- **Get a Different Name Day**
- **Why not show some love for your backyard birds today?** Go to nwf.org and look up Nature Crafts for Valentines to make some heart-shaped treats. Valentine’s Day

#### Friday
- **Susan B. Anthony** believed all people should have equal rights and that girls should get the same education as boys. Celebrate the birth of Susan B. Anthony today in 1820.

#### Saturday
- This day honors the invention that protects us from rain and sunlight.

### Answers

**What did the lightbulb say to the other on Valentine’s Day?**

I love you watts and watts!

**I love you watts and watts!**

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