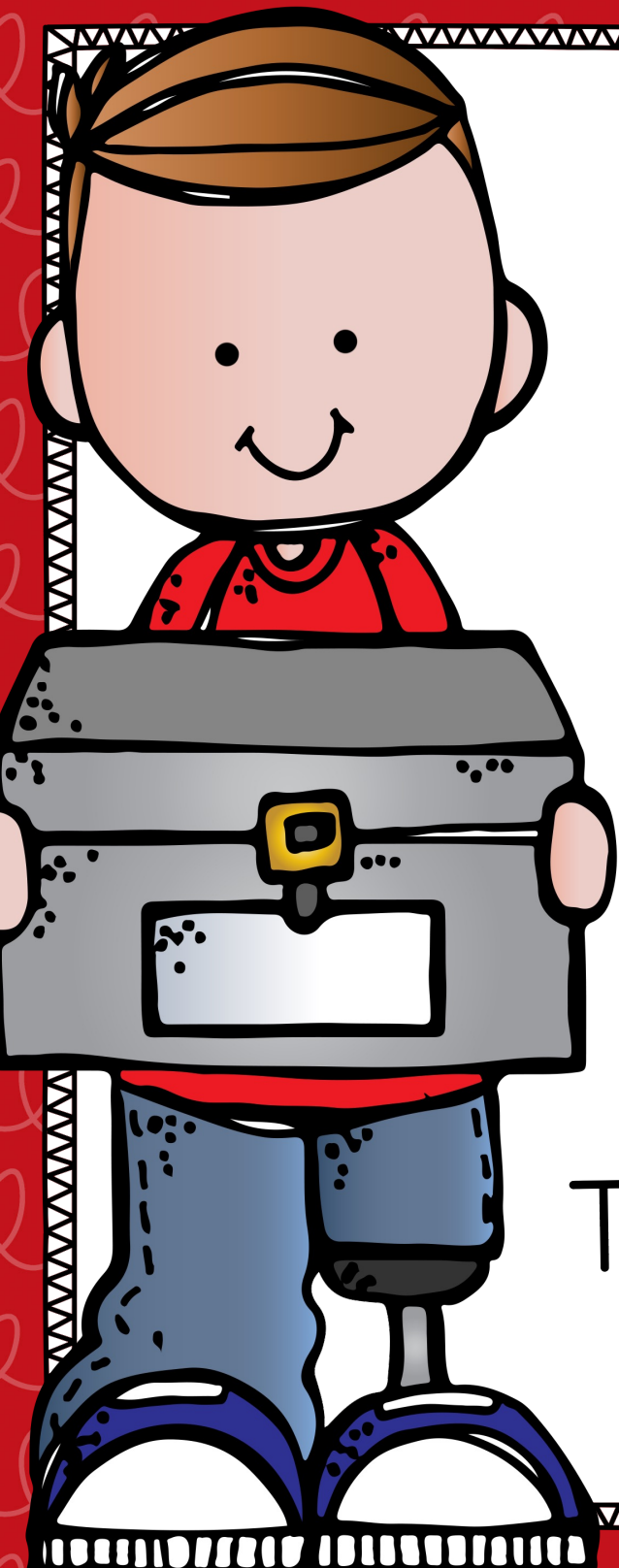


FOR GRADES 2-5

# LEAP DAY!

A TIME-CAPSULE  
THEMED PROJECT-BASED  
LEARNING ACTIVITY



# HOLIDAY PROJECT-BASED LEARNING BUNDLE

Celebrate the holidays but keep the focus on learning with our Holiday Project Based Learning Bundle! These PBL activities give students extra practice and review of essential math skills with fun holiday themes all year round!

This bundle includes six PBL Activities with leveled versions for grades 2/3 and grades 4/5. Holidays include Halloween, Thanksgiving, Christmas, Valentine's Day, St. Patrick's Day, and Easter. These no-prep activities are easy to plan and use. Just print and teach!



## Each PBL includes:

- ✓ Multiple skills-based math activities
- ✓ Easy options for differentiation
- ✓ Color and black & white versions
- ✓ An answer key
- ✓ Detailed teacher directions
- ✓ Digital and printable options for the Thanksgiving and Valentine's Day PBLs

Keep your students engaged and learning while celebrating the holidays!

[CLICK HERE TO LEARN MORE!](#)

# ABOUT THE PBL

Leap year is upon us! It's time to spring into action with some fun-filled learning! This Leap Day project-based learning activity for grades 2-5 will have your students hopping through a series of math, reading, writing, and grammar puzzles to put together a time capsule.

This PBL includes six activities related to celebrating Leap Day 2024. Students will jump from one activity to the next finding items to put in a time capsule, including newspapers, photos, schoolwork samples, and more. Then they will lock the capsule for the next four years to capture this moment in time.

Each activity requires students to use and apply academic and problem-solving skills to answer questions and complete puzzles, ultimately uncovering the code word that will seal in the Leap Day fun.

This fun activity includes two separate versions of the puzzles, one for grades 2-3 and one for grades 4-5, so it is easy to differentiate.

You can jump right into learning with this easy to prep and implement activity. No long supply lists. No complicated instructions. All you have to do is print and present. So even teachers can enjoy the moment!

## WHAT'S INSIDE:

- 6 different learning activities
- 2 separate versions for lower (2-3) and upper (4-5) grades
- Color and black & white versions
- An answer key
- Teacher directions

## SKILLS COVERED:

- |                         |                          |
|-------------------------|--------------------------|
| • Reading comprehension | • Place value            |
| • Text evidence         | • Money                  |
| • Parts of speech       | • Addition & subtraction |
| • Letter writing        | • Measurement            |
| • Estimation            | • Line plots             |

# HOW TO USE

There are a variety of ways to use this resource in the classroom:

- Use as a whole group activity to celebrate Leap Day.
- Use as a fun way to break up your regular day-to-day activities.
- Place the PBL activities in centers.
- Assign the PBL to students to complete individually
- Allow students to work together or in a small group to complete the PBL project.
- When using the colored version, print just a few copies and laminate or slide into page protectors. Students can use a dry-erase marker to complete the activities.





# FAQS

Q: What is included in this PBL?

A: Included is a colored version, black and white version, as well as an answer key.

Q: Are students completing this individually or in groups.

A: That is up to you! PBL activities are great activities to allow for collaboration. However, you can allow students to work on this independently as well.

Q: How long will this PBL take my students?

A: We estimate around 45 minutes to 1 hour. Time may vary depending on class factors as well as whether or not they are working in groups.

Q: How can I use the colored version in my class without wasting colored ink?

A: The colored version is great if you are putting the PBL in a center for one group to use at a time. In this case, just print one copy and laminate or slide into page protectors. Students can use a dry erase marker to complete the activities and you can reuse the same copy for multiple groups.

Q: Why are there two versions of some activities?

A: With the exception of the letter-writing and crossword activities, each activity has a version more appropriate for grades 2-3 and another that would be better for grades 4-5.

# IT'S LEAP DAY!

The date is February 29, a date that only comes around once every four years! To celebrate Leap Day, your class is going to create a time capsule that will be opened in four years. As you LEAP from one activity to the next, you will collect items to place in the capsule. Then, you will lock the capsule for the next four years!



# LOWER GRADE VERSION

(BEST FOR GRADES 2-3)

# EXTRA! EXTRA!

The first item you want to place in your time capsule is a daily newspaper. One of the articles is all about Leap Day! Read the article and answer the questions.

FEBRUARY 29, 2024

DAILY NEWS

\$2.00

---

LEAP DAY ARRIVES FOR FIRST TIME IN 4 YEARS

---

By Jeremy Orth, News Reporter

How many days are in a year? If you answered 365, you're right! Sort of... That's because today is Leap Day, the extra day that "leaps" onto our calendars every four years. In a leap year, there are actually 366 days.

Leap Day happens on February 29, which is not a date we see every year. Why does it happen? Well, our calendar usually has 365 days in a year because that is about how long it takes for Earth to orbit the sun. However, it actually takes exactly 365 days, 6 hours, and 9 minutes! We take those extra hours and minutes and make them up on Leap Day. If we didn't have Leap Day, over time the calendar dates would move away from the seasonal changes, and our seasons wouldn't occur at the same times each year. (Imagine your "summer" break from school being in the middle of winter!)

People born on Leap Day are known as "leaplings." Leaplings have an interesting birthday because the actual date of their birth only comes around every four years! It would probably be disappointing to only celebrate a birthday every four years, so many leaplings celebrate on February 28 or March 1 in non-leap years. It is estimated that there are 4 million people in the world who were born on Leap Day! Do you know anyone born on February 29?



Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?
2. Exactly how long does it take the Earth to orbit the sun?
3. In what year will the next Leap Day take place?
4. What would happen if we didn't have a leap year every four years?
5. What are "leaplings"?



# ITEM # 2

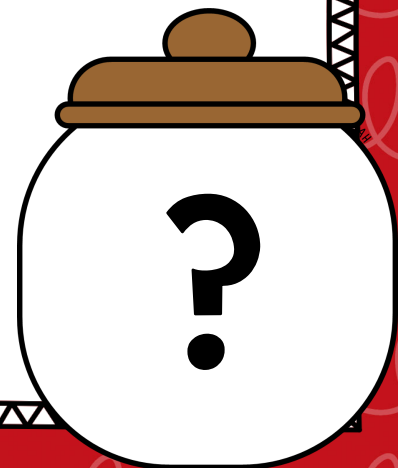
# PENNY JAR

Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	
LIZ	
MARA	
TAELYN	
XANDER	
COLLEEN	
MILICA	
BARRETT	

- ✓ Jared's guess has a 3 in the ones place, a 9 in the tens place, and a 2 in the hundreds place.
- ✓ Someone's guess is 422.
- ✓ Mara's guess is 10 less than Jared's guess.
- ✓ Milica's guess is 100 more than Mara's guess.
- ✓ Xander's guess is equal to \$2.53.
- ✓ Colleen's guess is the same as ten tens.
- ✓ Liz's guess is twice as much as Colleen's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 4 LESS THAN JARED'S GUESS. HOW MANY PENNIES ARE IN THE JAR?



# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

	L	E	A	P
NOUN	letter			
VERB				play
ADJECTIVE				

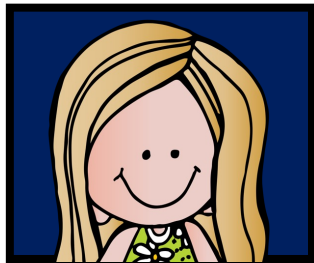
	D	A	Y
NOUN			
VERB			
ADJECTIVE		angry	



# ITEM # 4

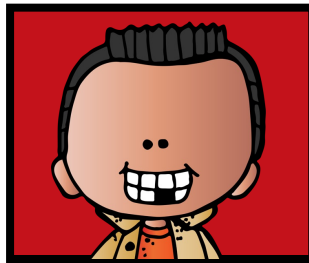
# SAY CHEESE!

The next item you want to place in the time capsule is a class photo. The photographer needs help determining how to line everyone up. Use the class list to make a line plot of the heights of each student from shortest to tallest to give to the photographer.



**LIZ**

Height:  
47 inches



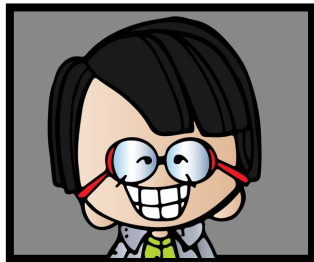
**JARED**

Height:  
52 inches



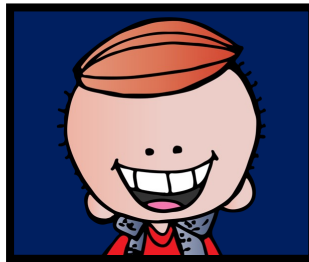
**MARA**

Height:  
54 inches



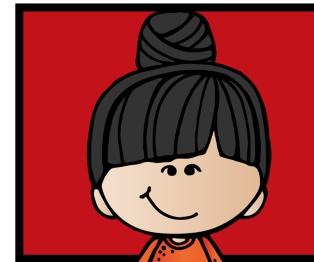
**XANDER**

Height:  
52 inches



**BARRETT**

Height:  
49 inches



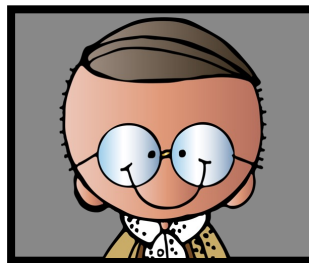
**TAELYN**

Height:  
50 inches



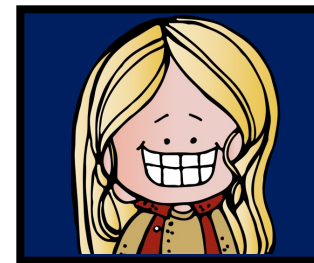
**COLLEEN**

Height:  
47 inches



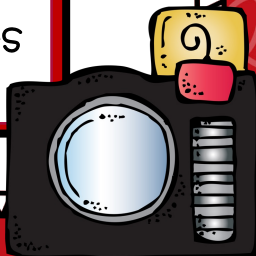
**JADIEL**

Height:  
49 inches



**MILICA**

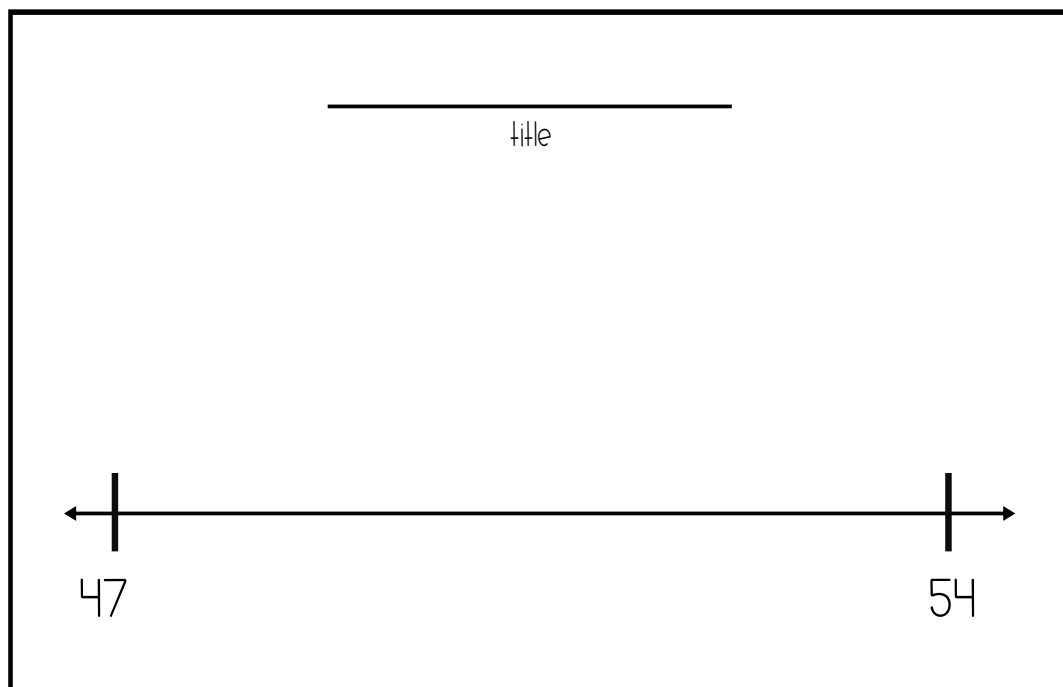
Height:  
53 inches



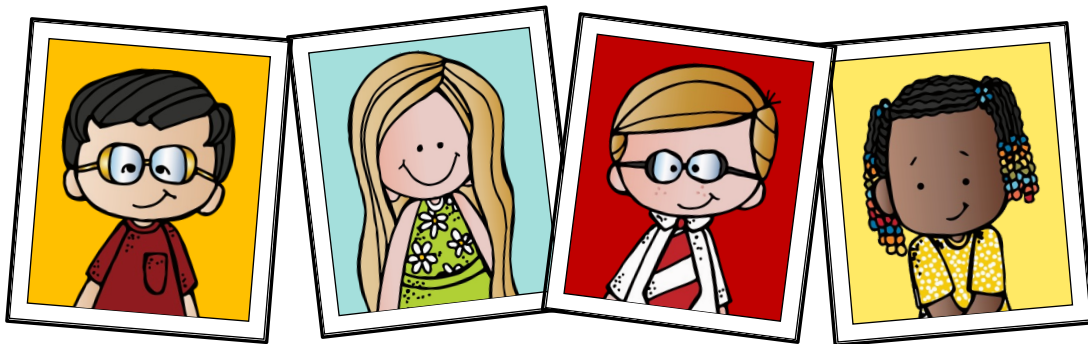
# ITEM # 4

# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than 50 inches tall?
2. What is the difference between the tallest height and the shortest height?
3. How many students are 49 or 52 inches tall?
4. How many students are in the class?





# ITEM #5

## DEAR FUTURE CLASS...

The next item you want to place in your time capsule is a letter to the class who will open your time capsule in four years. Use the space below to write a letter sharing all about your life in the year 2024. Be sure to include the items on the checklist.

### ITEMS TO INCLUDE:

- Heading
- Greeting
- Body that includes at least three facts about your life in 2024
- Closing
- Signature



A large rectangular area with a thick black border, containing horizontal lines for writing a letter. The bottom right corner of the area is folded over, suggesting a letter format.

# LOCKING THE CAPSULE

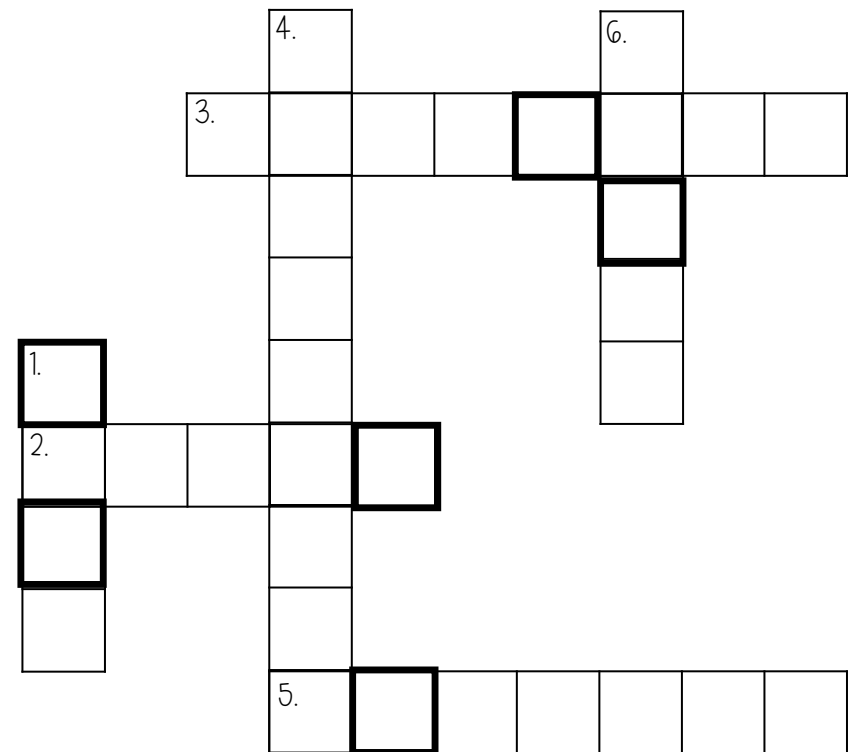
It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

## ACROSS

2. It takes about 365 days for earth to \_\_\_\_\_ the sun.
3. Leap Day takes place on \_\_\_\_\_ 29.
5. Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.

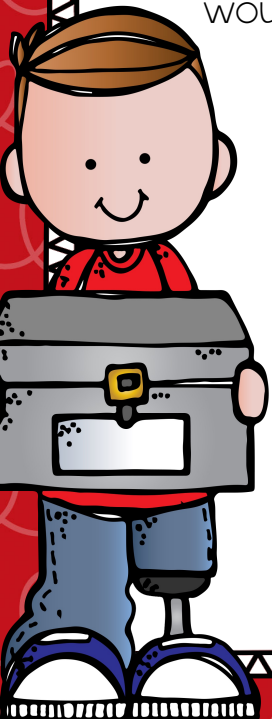
## DOWN

1. A leap year happens every \_\_\_\_\_ years.
4. People with birthdays on February 29 are known as \_\_\_\_\_.
6. People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_ 1.



**CODE WORD**

\_\_\_\_\_



# UPPER GRADE VERSION

(BEST FOR GRADES 4-5)

# EXTRA! EXTRA!

The first item you want to place in your time capsule is a daily newspaper. One of the articles is all about Leap Day! Read the article and answer the questions.

FEBRUARY 29, 2024

DAILY NEWS

\$2.00

---

LEAP DAY ARRIVES FOR FIRST TIME IN 4 YEARS

---

By Jeremy Orth, News Reporter

How many days are in a year? If you answered 365, you're right! Sort of... That's because today is Leap Day, the extra day that "leaps" onto our calendars every four years. In a leap year, there are actually 366 days.

Leap Day happens on February 29, which is not a date we see every year. Why does it happen? Well, our calendar usually has 365 days in a year because that is about how long it takes for Earth to orbit the sun. However, it actually takes exactly 365 days, 6 hours, and 9 minutes! We take those extra hours and minutes and make them up on Leap Day. If we didn't have Leap Day, over time the calendar dates would move away from the seasonal changes, and our seasons wouldn't occur at the same times each year. (Imagine your "summer" break from school being in the middle of winter!)

People born on Leap Day are known as "leaplings." Leaplings have an interesting birthday because the actual date of their birth only comes around every four years! It would probably be disappointing to only celebrate a birthday every four years, so many leaplings celebrate on February 28 or March 1 in non-leap years. It is estimated that there are 4 million people in the world who were born on Leap Day! Do you know anyone born on February 29?



Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?
2. In what years will the next three Leap Days take place?
3. Why do we have a Leap Day every four years?
4. What would happen if we didn't have a leap year every four years?
5. How old is a leapling born on February 29, 2012. Explain your answer.



# ITEM # 2

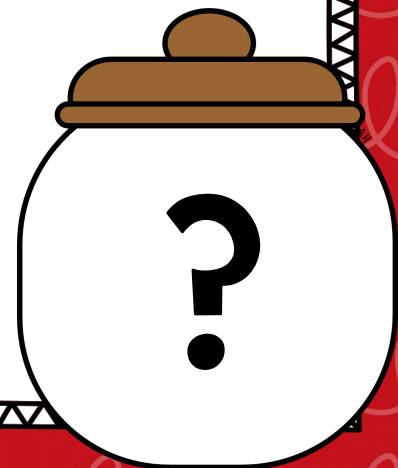
# PENNY JAR

Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	
LIZ	
MARA	
TAELYN	
XANDER	
COLLEEN	
MILICA	
BARRETT	

- ✓ Jared's guess has a 7 in the ones place, a 9 in the tens place, and a 5 in the hundreds place.
- ✓ Someone's guess is 28 more than Mara's guess.
- ✓ Mara's guess is 67 less than Colleen's guess.
- ✓ Milica's guess is the same as 6 ones, 7 hundreds, and 14 tens.
- ✓ Xander's guess is twice as much as Mara's guess.
- ✓ Colleen's guess is 143 less than Jared's.
- ✓ Liz's guess is half as much as Milica's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 5 MORE THAN TWICE TAELYN'S GUESS. WHOSE GUESS WAS CLOSEST?



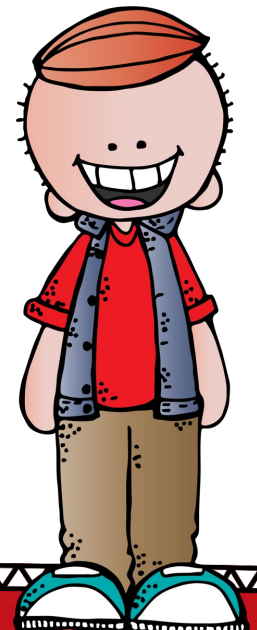
# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

	L	E	A	P
NOUN	letter			
VERB				
ADJECTIVE			angry	
ADVERB				

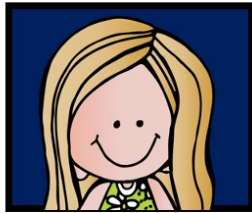
	D	A	Y
NOUN			
VERB	drive		
ADJECTIVE			
ADVERB		annually	



# ITEM # 4

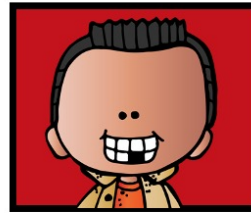
# SAY CHEESE!

The next item you want to place in the time capsule is a class photo. The photographer needs help determining how to line everyone up. Use the class list to make a line plot of the heights of each student from shortest to tallest to give to the photographer.



**LIZ**

Height:  
50  
Inches



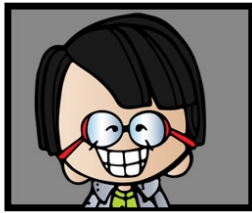
**JARED**

Height:  
52  $\frac{1}{4}$   
Inches



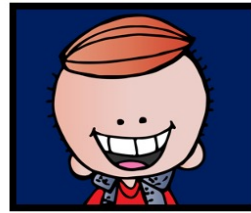
**MARA**

Height:  
51  $\frac{1}{2}$   
Inches



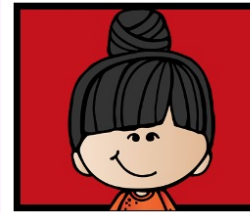
**XANDER**

Height:  
52  $\frac{1}{2}$   
Inches



**BARRETT**

Height:  
50  $\frac{1}{4}$   
Inches



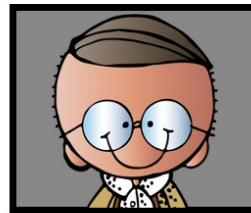
**TAELYN**

Height:  
50  
Inches



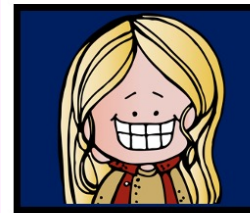
**COLLEEN**

Height:  
50  $\frac{3}{4}$   
Inches



**JADIEL**

Height:  
50  $\frac{1}{4}$   
Inches



**MILICA**

Height:  
51  $\frac{3}{4}$   
Inches



**SETH**

Height:  
52  $\frac{1}{4}$   
Inches



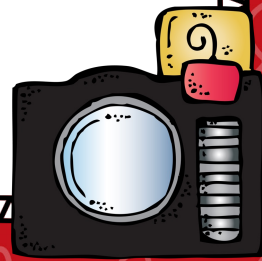
**SHELBY**

Height:  
51  $\frac{1}{2}$   
Inches



**POLLY**

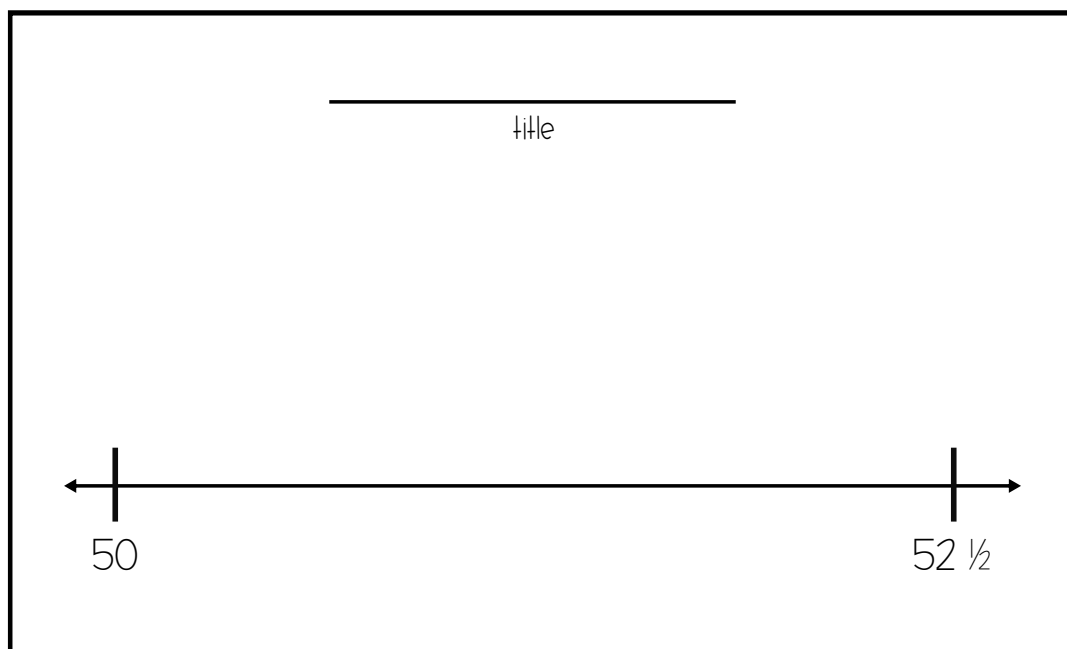
Height:  
51  $\frac{1}{4}$   
Inches



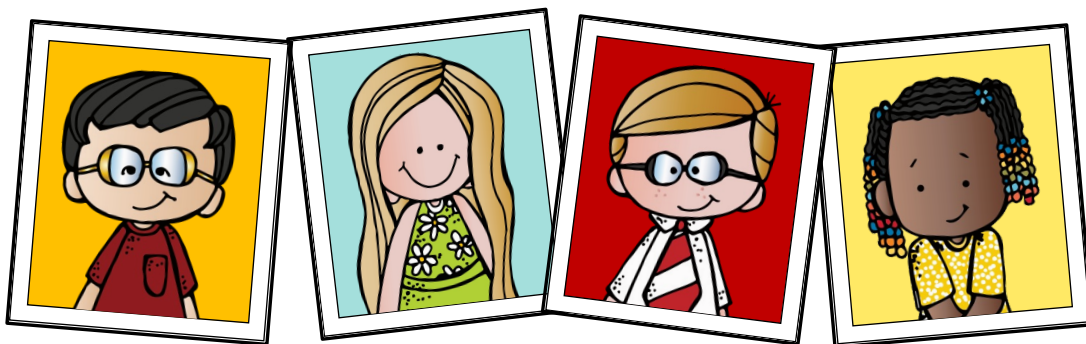
# ITEM # 4

# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than  $51 \frac{1}{2}$  inches tall?
2. What is the difference between the tallest height and the shortest height?
3. How many students have a height greater than or equal to 50 inches but less than or equal to 52 inches?
4. How many students are in the class?





# ITEM #5

## DEAR FUTURE CLASS...

The next item you want to place in your time capsule is a letter to the class who will open your time capsule in four years. Use the space below to write a letter sharing all about your life in the year 2024. Be sure to include the items on the checklist.

### ITEMS TO INCLUDE:

- Heading
- Greeting
- Body that includes at least three facts about your life in 2024
- Closing
- Signature



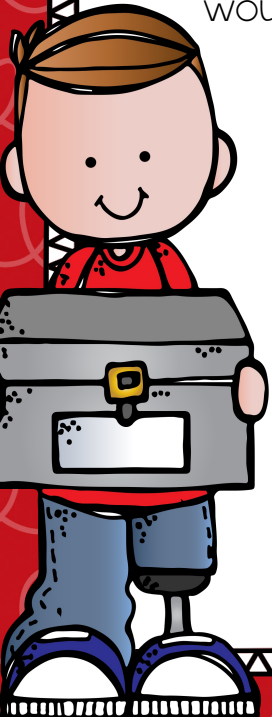
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# LOCKING THE CAPSULE

It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

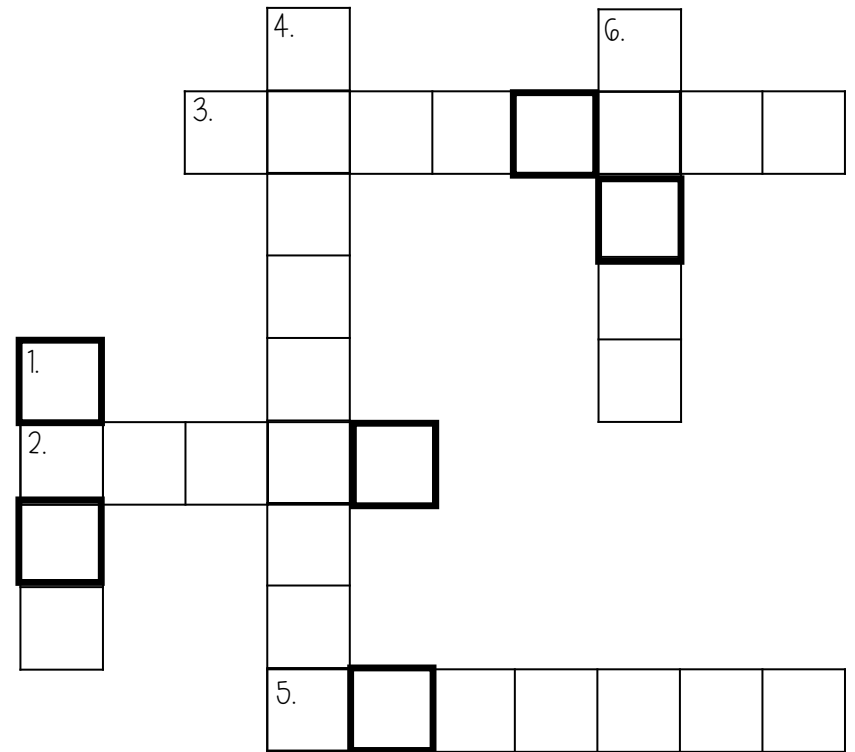
## ACROSS

2. It takes about 365 days for earth to \_\_\_\_\_ the sun.
3. Leap Day takes place on \_\_\_\_\_ 29.
5. Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.



# DOWN

1. A leap year happens every \_\_\_\_\_ years.
4. People with birthdays on February 29 are known as \_\_\_\_\_.
6. People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_ 1.



## CODE WORD

--

# **ANSWER KEY**

**LOWER GRADE VERSION**

# EXTRA! EXTRA!

The first item you want to place in your time capsule is a daily newspaper. One of the articles is all about Leap Day! Read the article and answer the questions.

FEBRUARY 29, 2024

DAILY NEWS

\$2.00

---

LEAP DAY ARRIVES FOR FIRST TIME IN 4 YEARS

By Jeremy Orth, News Reporter

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Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?

**There are 366 days in a leap year.**

2. Exactly how long does it take the Earth to orbit the sun?

**It takes 365 days, 6 hours, and 9 minutes for the Earth to orbit the sun.**

3. In what year will the next Leap Day take place?

**The next Leap Day will be in 2028.**

4. What would happen if we didn't have a leap year every four years?

**Over time, the seasons wouldn't match up with the calendar.**

5. What are "leaplings"?

**Leaplings are people who were born on Leap Day.**



# ITEM # 2

# PENNY JAR

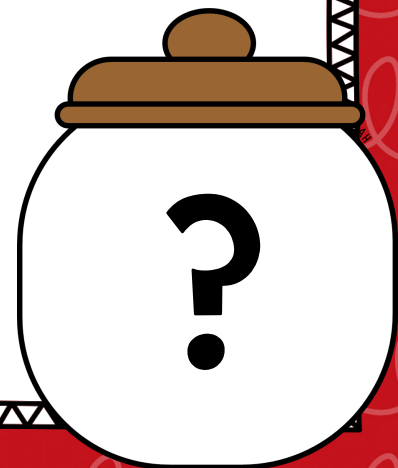
Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	293
LIZ	200
MARA	283
TAELYN	422
XANDER	253
COLLEEN	100
MILICA	383
BARRETT	300

- ✓ Jared's guess has a 3 in the ones place, a 9 in the tens place, and a 2 in the hundreds place.
- ✓ Someone's guess is 422.
- ✓ Mara's guess is 10 less than Jared's guess.
- ✓ Milica's guess is 100 more than Mara's guess.
- ✓ Xander's guess is equal to \$2.53.
- ✓ Colleen's guess is the same as ten tens.
- ✓ Liz's guess is twice as much as Colleen's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 4 LESS THAN JARED'S GUESS. HOW MANY PENNIES ARE IN THE JAR?

**289 pennies are in the jar.**



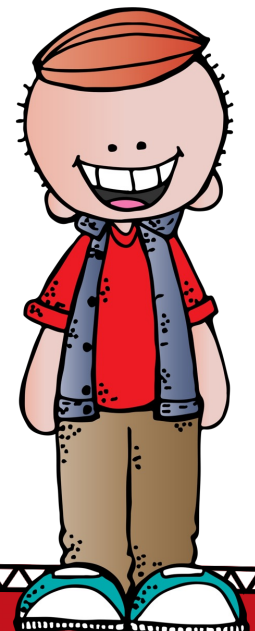
# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

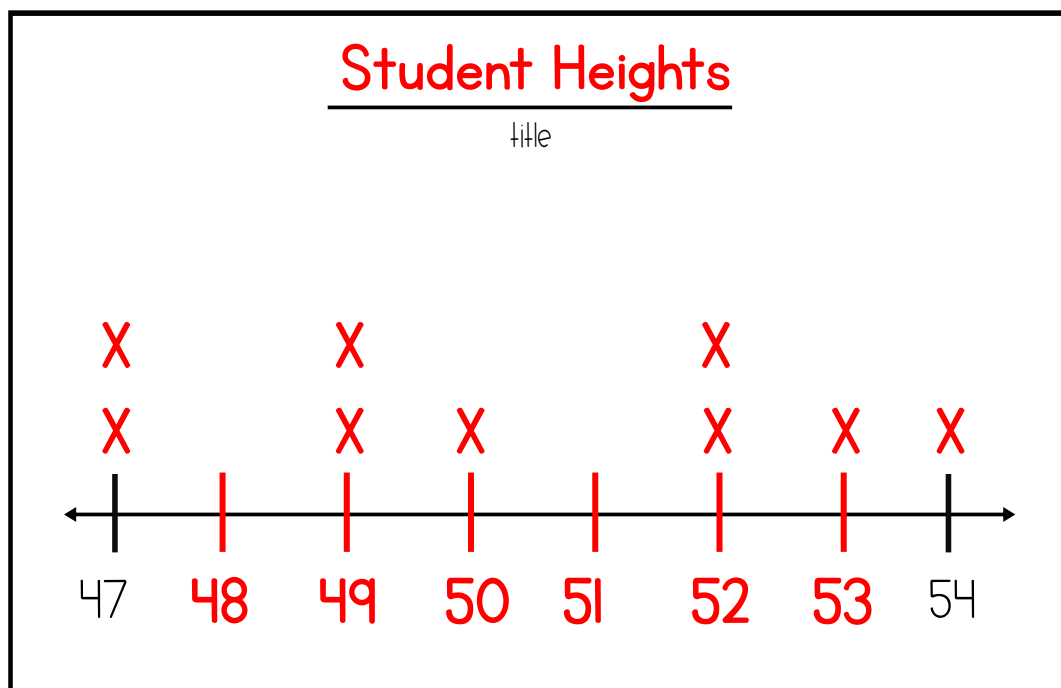
	L	E	A	P
NOUN	letter			
VERB	ANSWERS WILL VARY			play
ADJECTIVE				

	D	A	Y
NOUN			
VERB	ANSWERS WILL VARY		
ADJECTIVE		angry	



# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than 50 inches tall?

4 students

2. What is the difference between the tallest height and the shortest height?

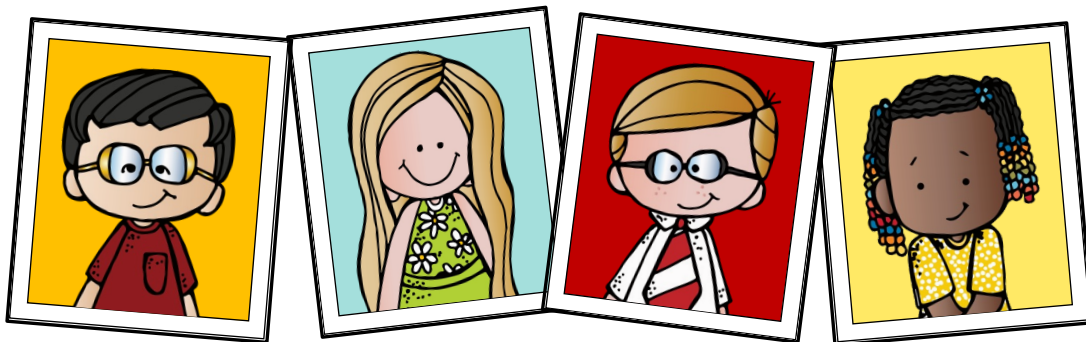
7 inches

3. How many students are 49 or 52 inches tall?

4 students

4. How many students are in the class?

9 students



# LOCKING THE CAPSULE

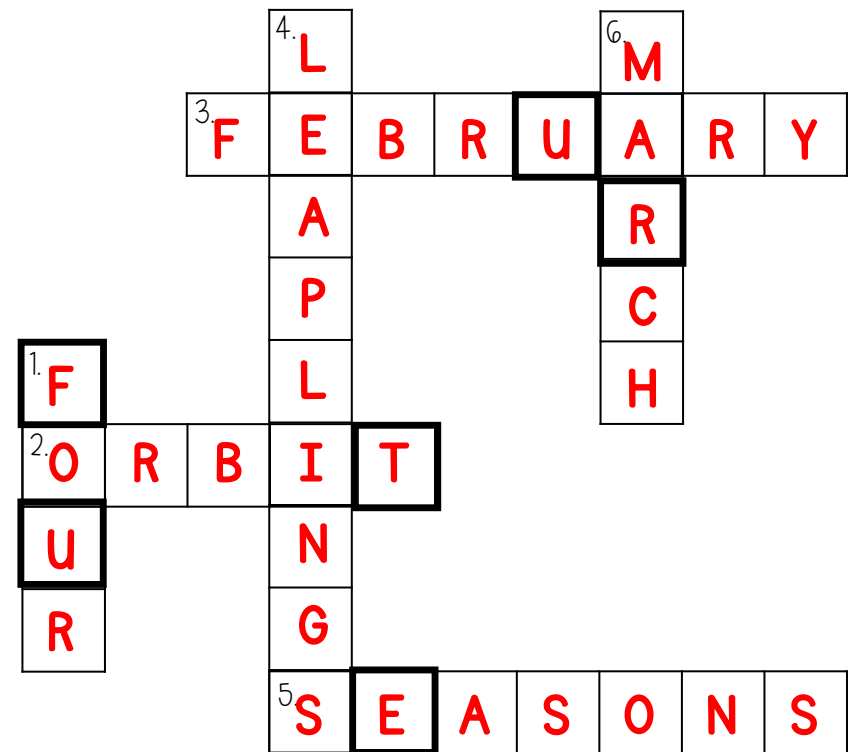
It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

## ACROSS

- It takes about 365 days for earth to \_\_\_\_\_ the sun.
- Leap Day takes place on \_\_\_\_\_ 29.
- Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.

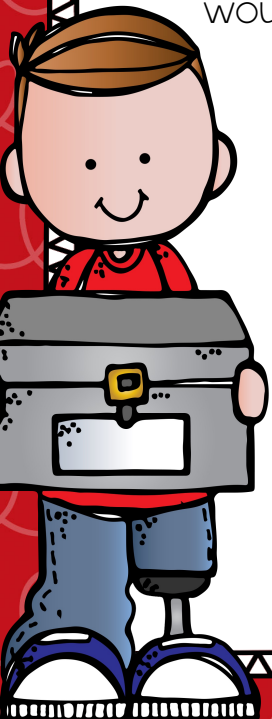
## DOWN

- A leap year happens every \_\_\_\_\_ years.
- People with birthdays on February 29 are known as \_\_\_\_\_.
- People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_.



## CODE WORD

F U T U R E





# ANSWER KEY

UPPER GRADE VERSION

# EXTRA! EXTRA!

The first item you want to place in your time capsule is a daily newspaper. One of the articles is all about Leap Day! Read the article and answer the questions.

FEBRUARY 29, 2024

DAILY NEWS

\$2.00

---

LEAP DAY ARRIVES FOR FIRST TIME IN 4 YEARS

---

By Jeremy Orth, News Reporter

How many days are in a year? If you answered 365, you're right! Sort of... That's because today is Leap Day, the extra day that "leaps" onto our calendars every four years. In a leap year, there are actually 366 days.

Leap Day happens on February 29, which is not a date we see every year. Why does it happen? Well, our calendar usually has 365 days in a year because that is about how long it takes for Earth to orbit the sun. However, it actually takes exactly 365 days, 6 hours, and 9 minutes! We take those extra hours and minutes and make them up on Leap Day. If we didn't have Leap Day, over time the calendar dates would move away from the seasonal changes, and our seasons wouldn't occur at the same times each year. (Imagine your "summer" break from school being in the middle of winter!)

People born on Leap Day are known as "leaplings." Leaplings have an interesting birthday because the actual date of their birth only comes around every four years! It would probably be disappointing to only celebrate a birthday every four years, so many leaplings celebrate on February 28 or March 1 in non-leap years. It is estimated that there are 4 million people in the world who were born on Leap Day! Do you know anyone born on February 29?



Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?

**There are 366 days in a leap year.**

2. In what years will the next three Leap Days take place?

**They will be in 2028, 2032, and 2036.**

3. Why do we have a Leap Day every four years?

**We have a Leap Day because a year is actually 365 days, 6 hours, and 9 minutes. We make up that time on Leap Day.**

4. What would happen if we didn't have a leap year every four years?

**Over time, the seasons wouldn't match up with the calendar.**

5. How old is a lepling born on February 29, 2012. Explain your answer.

**Answers will vary. A student could answer 3 or 12 depending on how they explain their answer.**

# ITEM # 2

# PENNY JAR

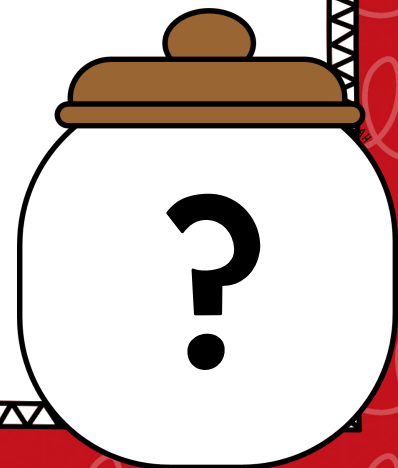
Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	597
LIZ	423
MARA	387
TAELYN	415
XANDER	774
COLLEEN	454
MILICA	846
BARRETT	877

- ✓ Jared's guess has a 7 in the ones place, a 9 in the tens place, and a 5 in the hundreds place.
- ✓ Someone's guess is 28 more than Mara's guess.
- ✓ Mara's guess is 67 less than Colleen's guess.
- ✓ Milica's guess is the same as 6 ones, 7 hundreds, and 14 tens.
- ✓ Xander's guess is twice as much as Mara's guess.
- ✓ Colleen's guess is 143 less than Jared's.
- ✓ Liz's guess is half as much as Milica's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 5 MORE THAN TWICE TAELYN'S GUESS. WHOSE GUESS WAS CLOSEST?

There are 835 pennies in the jar, so Milica's guess was the closest.



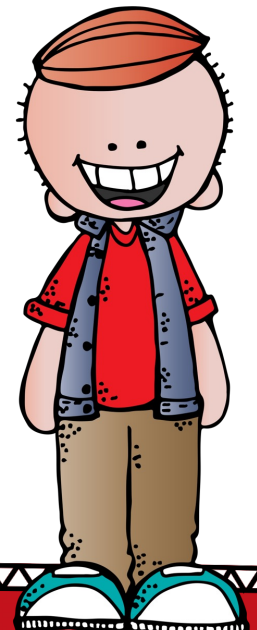
# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

	L	E	A	P
NOUN	letter			
VERB	ANSWERS WILL VARY			
ADJECTIVE			angry	
ADVERB				

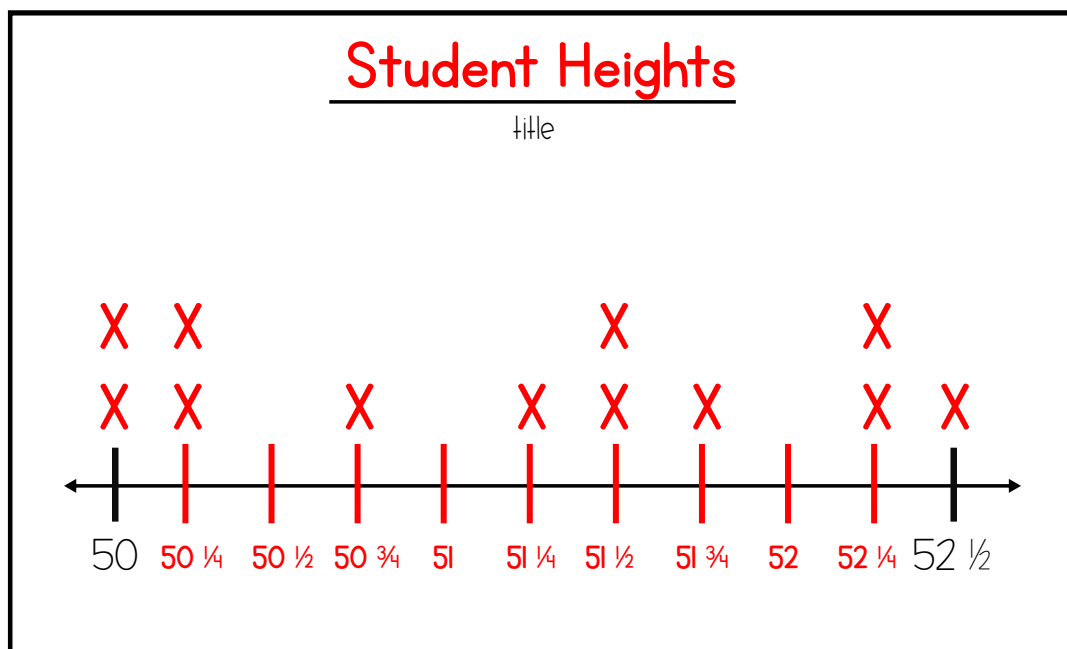
	D	A	Y
NOUN	ANSWERS WILL VARY		
VERB	drive		
ADJECTIVE			
ADVERB		annually	





# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than 51  $\frac{1}{2}$  inches tall?

**6 students**

2. What is the difference between the tallest height and the shortest height?

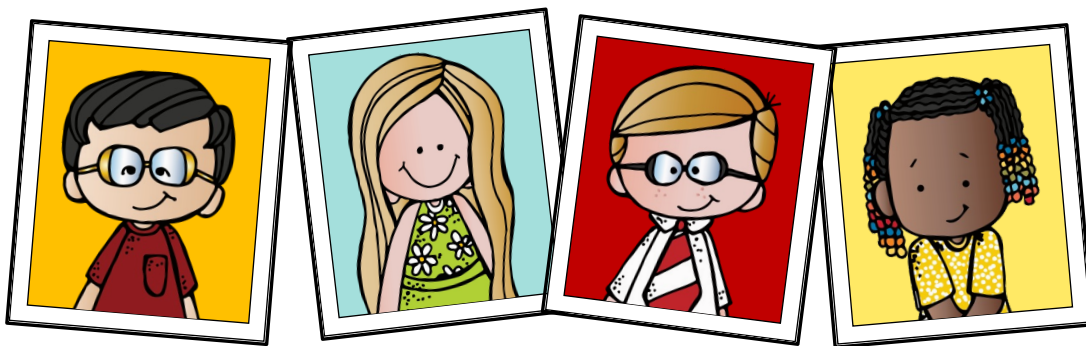
**2  $\frac{1}{2}$  inches**

3. How many students have a height greater than or equal to 50 inches but less than or equal to 52 inches?

**9 students**

4. How many students are in the class?

**12 students**



# LOCKING THE CAPSULE

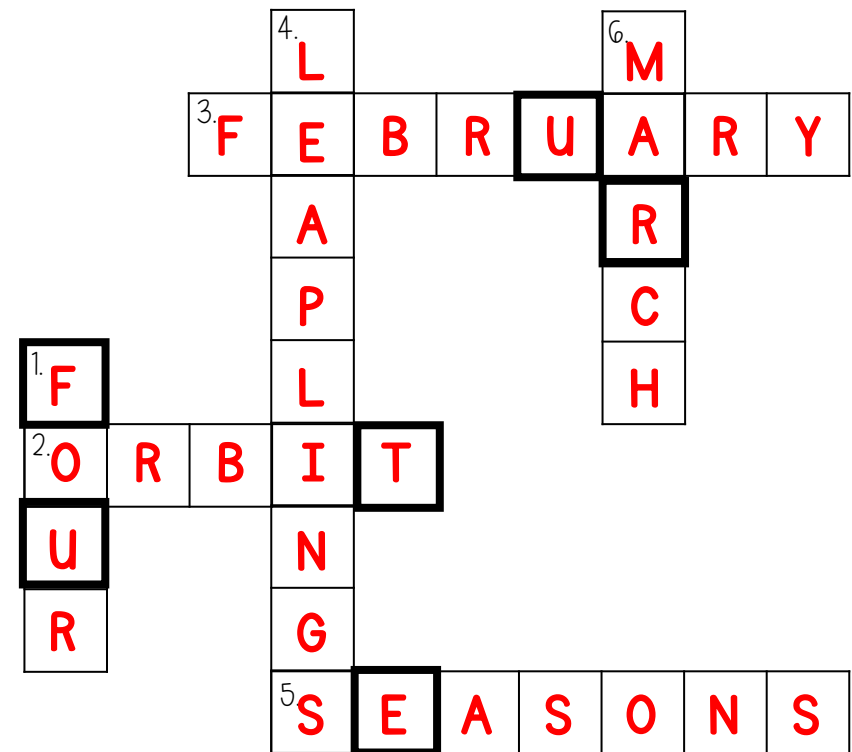
It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

## ACROSS

- It takes about 365 days for earth to \_\_\_\_\_ the sun.
- Leap Day takes place on \_\_\_\_\_ 29.
- Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.

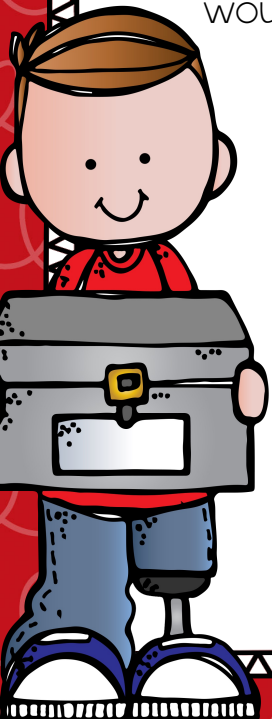
## DOWN

- A leap year happens every \_\_\_\_\_ years.
- People with birthdays on February 29 are known as \_\_\_\_\_.
- People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_.



## CODE WORD

F U T U R E



# **BLACK & WHITE**

**LOWER GRADE VERSION**

# EXTRA! EXTRA!

The first item you want to place in your time capsule is a daily newspaper. One of the articles is all about Leap Day! Read the article and answer the questions.

FEBRUARY 29, 2024

DAILY NEWS

\$2.00

---

LEAP DAY ARRIVES FOR FIRST TIME IN 4 YEARS

---

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How many days are in a year? If you answered 365, you're right! Sort of... That's because today is Leap Day, the extra day that "leaps" onto our calendars every four years. In a leap year, there are actually 366 days.

Leap Day happens on February 29, which is not a date we see every year. Why does it happen? Well, our calendar usually has 365 days in a year because that is about how long it takes for Earth to orbit the sun. However, it actually takes exactly 365 days, 6 hours, and 9 minutes! We take those extra hours and minutes and make them up on Leap Day. If we didn't have Leap Day, over time the calendar dates would move away from the seasonal changes, and our seasons wouldn't occur at the same times each year. (Imagine your "summer" break from school being in the middle of winter!)

People born on Leap Day are known as "leaplings." Leaplings have an interesting birthday because the actual date of their birth only comes around every four years! It would probably be disappointing to only celebrate a birthday every four years, so many leaplings celebrate on February 28 or March 1 in non-leap years. It is estimated that there are 4 million people in the world who were born on Leap Day! Do you know anyone born on February 29?



Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?
2. Exactly how long does it take the Earth to orbit the sun?
3. In what year will the next Leap Day take place?
4. What would happen if we didn't have a leap year every four years?
5. What are "leaplings"?



# ITEM # 2

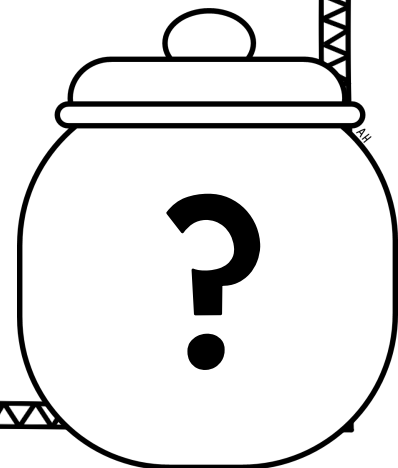
# PENNY JAR

Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	
LIZ	
MARA	
TAELYN	
XANDER	
COLLEEN	
MILICA	
BARRETT	

- ✓ Jared's guess has a 3 in the ones place, a 9 in the tens place, and a 2 in the hundreds place.
- ✓ Someone's guess is 422.
- ✓ Mara's guess is 10 less than Jared's guess.
- ✓ Milica's guess is 100 more than Mara's guess.
- ✓ Xander's guess is equal to \$2.53.
- ✓ Colleen's guess is the same as ten tens.
- ✓ Liz's guess is twice as much as Colleen's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 4 LESS THAN JARED'S GUESS. HOW MANY PENNIES ARE IN THE JAR?



# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

	L	E	A	P
NOUN	letter			
VERB				play
ADJECTIVE				

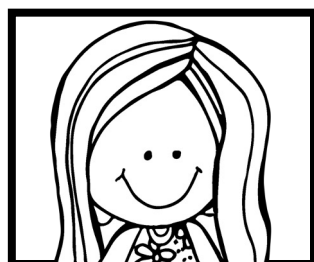
	D	A	Y
NOUN			
VERB			
ADJECTIVE		angry	



# ITEM # 4

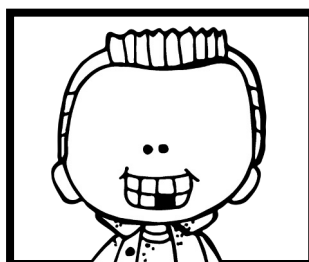
# SAY CHEESE!

The next item you want to place in the time capsule is a class photo. The photographer needs help determining how to line everyone up. Use the class list to make a line plot of the heights of each student from shortest to tallest to give to the photographer.



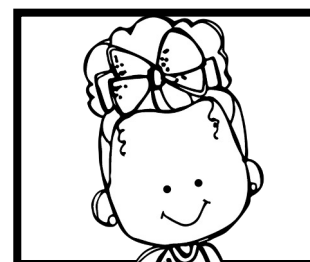
**LIZ**

Height:  
47 inches



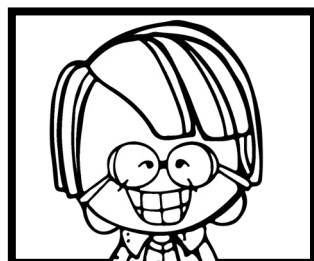
**JARED**

Height:  
52 inches



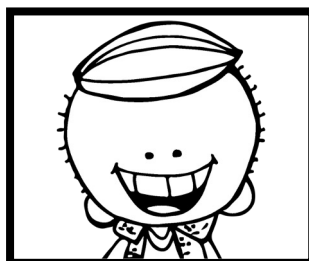
**MARA**

Height:  
54 inches



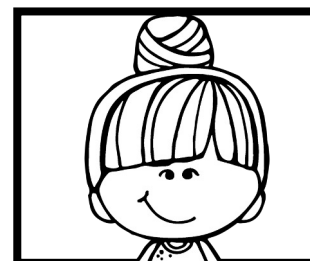
**XANDER**

Height:  
52 inches



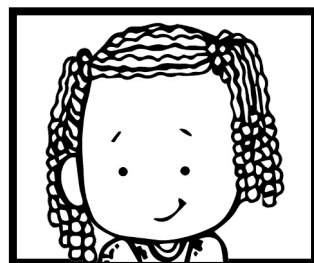
**BARRETT**

Height:  
49 inches



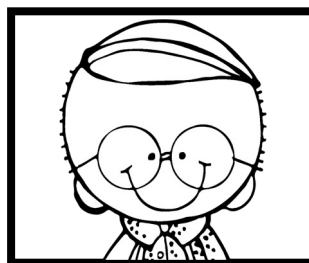
**TAEYN**

Height:  
50 inches



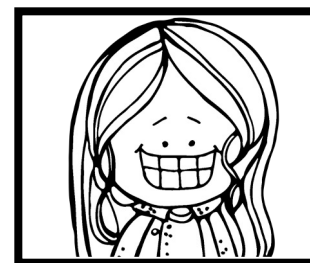
**COLLEEN**

Height:  
47 inches



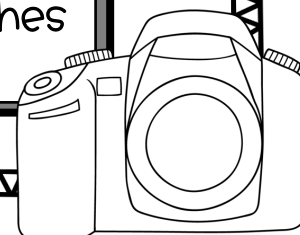
**JADIEL**

Height:  
49 inches



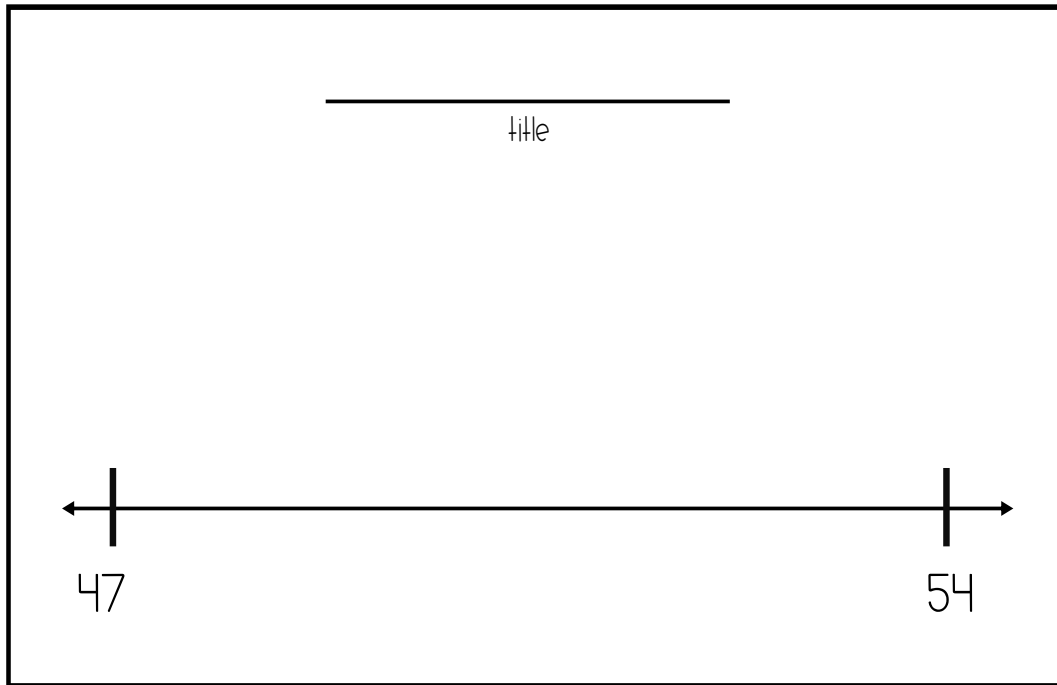
**MILICA**

Height:  
53 inches

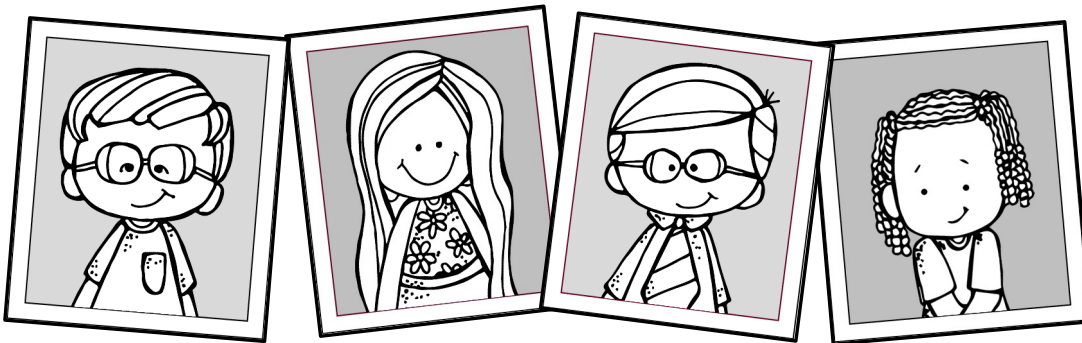


# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than 50 inches tall?
2. What is the difference between the tallest height and the shortest height?
3. How many students are 49 or 52 inches tall?
4. How many students are in the class?





# ITEM #5

# DEAR FUTURE CLASS...

The next item you want to place in your time capsule is a letter to the class who will open your time capsule in four years. Use the space below to write a letter sharing all about your life in the year 2024. Be sure to include the items on the checklist.

## ITEMS TO INCLUDE:

- Heading
- Greeting
- Body that includes at least three facts about your life in 2024
- Closing
- Signature



A large rectangular area with a thick black border, containing horizontal lines for writing a letter. The bottom right corner of the area is folded over, suggesting a letter or envelope.

# LOCKING THE CAPSULE

It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

## ACROSS

2. It takes about 365 days for earth to \_\_\_\_\_ the sun.

3. Leap Day takes place on \_\_\_\_\_ 29.

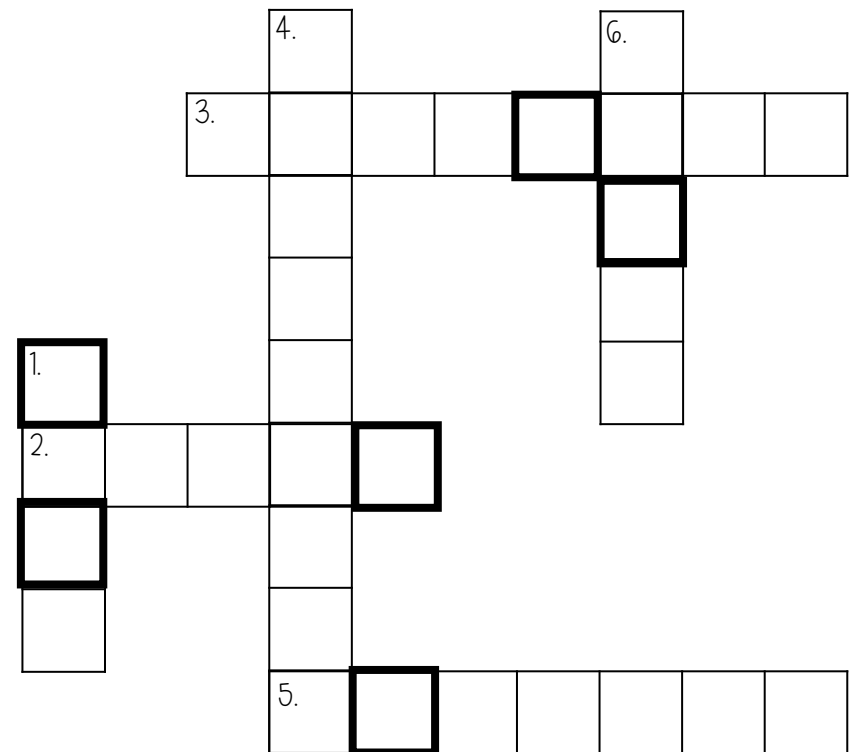
5. Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.

## DOWN

1. A leap year happens every \_\_\_\_\_ years.

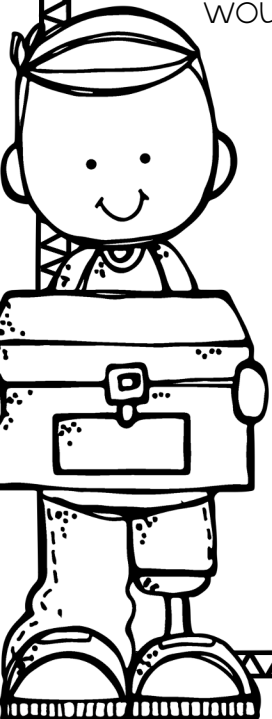
4. People with birthdays on February 29 are known as \_\_\_\_\_.

6. People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_ 1.



**CODE WORD**

\_\_\_\_\_



# **BLACK & WHITE**

**UPPER GRADE VERSION**

# EXTRA! EXTRA!

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FEBRUARY 29, 2024

DAILY NEWS

\$2.00

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Local teacher Sally Herman teaches a lesson about Leap Day.

1. How many days are in a leap year?
2. In what years will the next three Leap Days take place?
3. Why do we have a Leap Day every four years?
4. What would happen if we didn't have a leap year every four years?
5. How old is a leapling born on February 29, 2012. Explain your answer.



# ITEM # 2

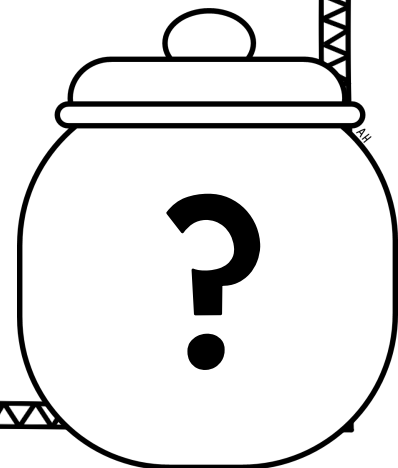
# PENNY JAR

Your class decides to leave a jar of pennies from the year 2024. Before you put the jar in the time capsule, each student estimates how many pennies are in the jar. You'll find out who is correct on Leap Day in 2028! Use the clues below to determine each person's guess.

STUDENT	ESTIMATE
JARED	
LIZ	
MARA	
TAELYN	
XANDER	
COLLEEN	
MILICA	
BARRETT	

- ✓ Jared's guess has a 7 in the ones place, a 9 in the tens place, and a 5 in the hundreds place.
- ✓ Someone's guess is 28 more than Mara's guess.
- ✓ Mara's guess is 67 less than Colleen's guess.
- ✓ Milica's guess is the same as 6 ones, 7 hundreds, and 14 tens.
- ✓ Xander's guess is twice as much as Mara's guess.
- ✓ Colleen's guess is 143 less than Jared's.
- ✓ Liz's guess is half as much as Milica's guess.
- ✓ If you add Liz and Colleen's guesses together, it equals Barrett's guess.

THE ACTUAL NUMBER OF PENNIES IN THE JAR IS 5 MORE THAN TWICE TAELYN'S GUESS. WHOSE GUESS WAS CLOSEST?



# ITEM # 3

# SCHOOL DAYS

The next item you want to leave in the time capsule is a sample of schoolwork. The class voted to include a grammar lesson! Complete the lesson below by writing a noun, adjective, and verb for each letter in the phrase "Leap Day." Some examples are done for you.

	L	E	A	P
NOUN	letter			
VERB				
ADJECTIVE			angry	
ADVERB				

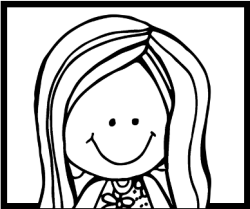
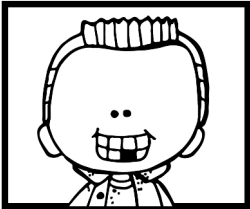

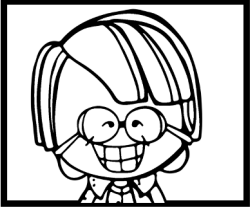
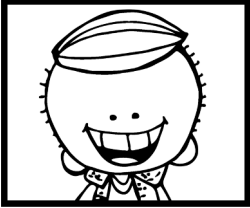

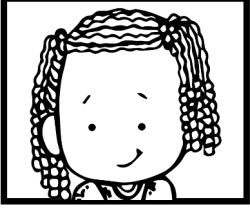
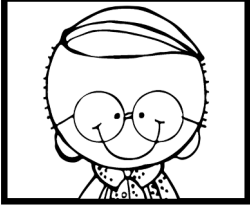
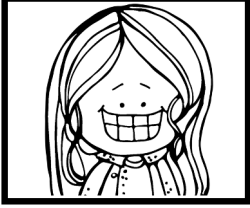
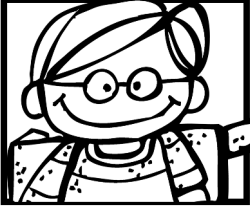
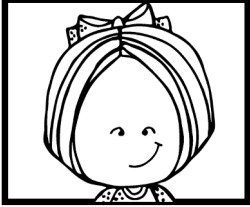
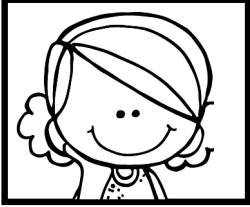
	D	A	Y
NOUN			
VERB	drive		
ADJECTIVE			
ADVERB		annually	

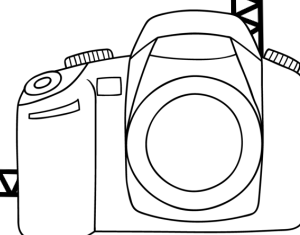


# ITEM # 4

# SAY CHEESE!

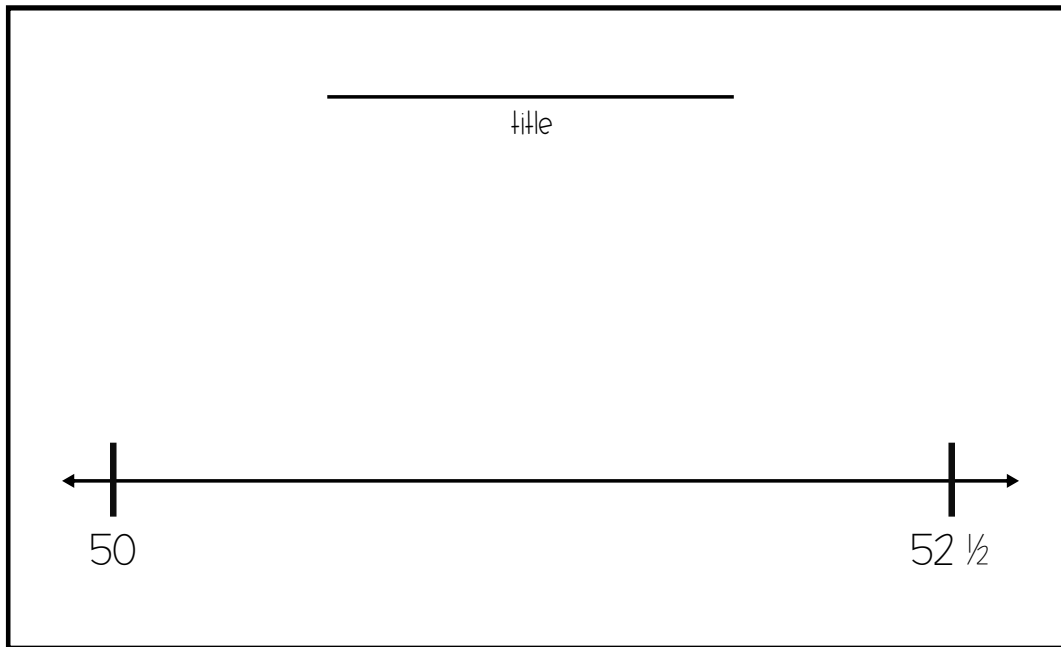
The next item you want to place in the time capsule is a class photo. The photographer needs help determining how to line everyone up. Use the class list to make a line plot of the heights of each student from shortest to tallest to give to the photographer.

	<b>LIZ</b> Height: 50 inches		<b>JARED</b> Height: 52 $\frac{1}{4}$ inches		<b>MARA</b> Height: 51 $\frac{1}{2}$ inches
	<b>XANDER</b> Height: 52 $\frac{1}{2}$ inches		<b>BARRETT</b> Height: 50 $\frac{1}{4}$ inches		<b>TAELYN</b> Height: 50 inches
	<b>COLLEEN</b> Height: 50 $\frac{3}{4}$ inches		<b>JADIEL</b> Height: 50 $\frac{1}{4}$ inches		<b>MILICA</b> Height: 51 $\frac{3}{4}$ inches
	<b>SETH</b> Height: 52 $\frac{1}{4}$ inches		<b>SHELBY</b> Height: 51 $\frac{1}{2}$ inches		<b>POLLY</b> Height: 51 $\frac{1}{4}$ inches

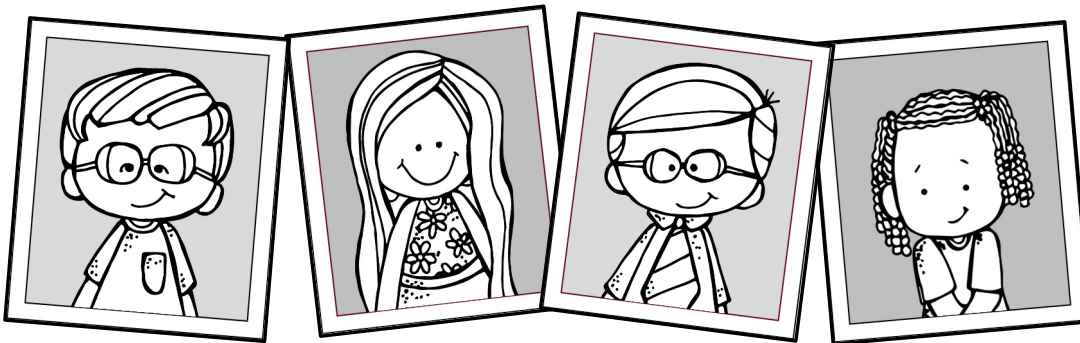


# SAY CHEESE!

Use the information on the previous page to complete the line plot below. Then, answer the questions.



1. How many students are less than 51 1/2 inches tall?
2. What is the difference between the tallest height and the shortest height?
3. How many students have a height greater than or equal to 50 inches but less than or equal to 52 inches?
4. How many students are in the class?





# ITEM #5

# DEAR FUTURE CLASS...

The next item you want to place in your time capsule is a letter to the class who will open your time capsule in four years. Use the space below to write a letter sharing all about your life in the year 2024. Be sure to include the items on the checklist.

## ITEMS TO INCLUDE:

- Heading
- Greeting
- Body that includes at least three facts about your life in 2024
- Closing
- Signature



A large rectangular area with a thick black border, containing horizontal lines for writing a letter. The bottom right corner of the area is folded over, suggesting a letter or envelope.

# LOCKING THE CAPSULE

It's time to lock up the time capsule! Your class wants to create a code word that will need to be entered into the lock on the capsule for it to open. Complete the puzzle below, then unscramble the letters in the bolded boxes to determine the code word!

## ACROSS

2. It takes about 365 days for earth to \_\_\_\_\_ the sun.

3. Leap Day takes place on \_\_\_\_\_ 29.

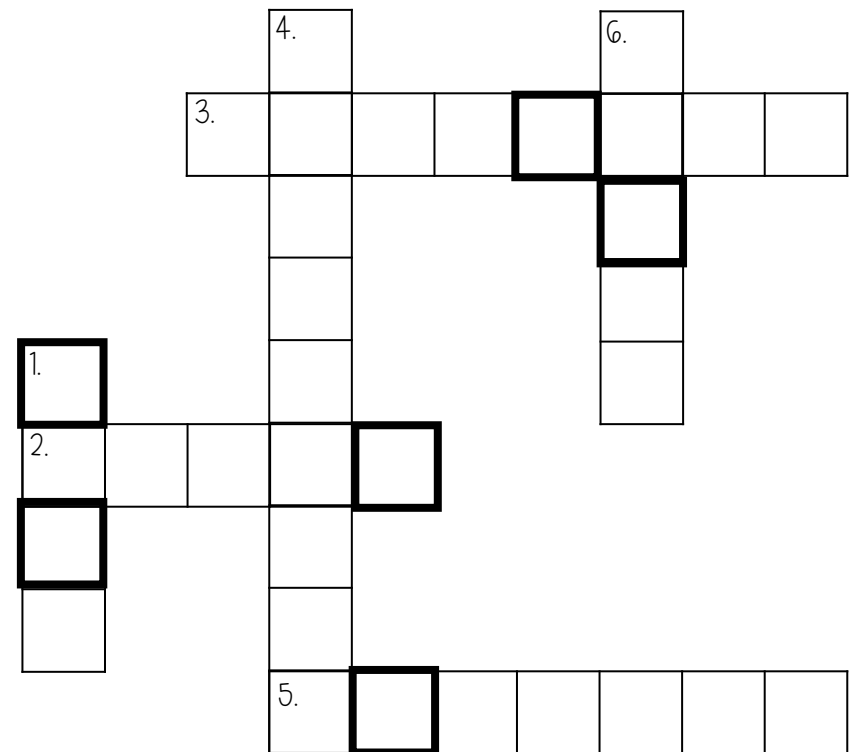
5. Without Leap Days, over time the \_\_\_\_\_ would not match up with calendar dates.

## DOWN

1. A leap year happens every \_\_\_\_\_ years.

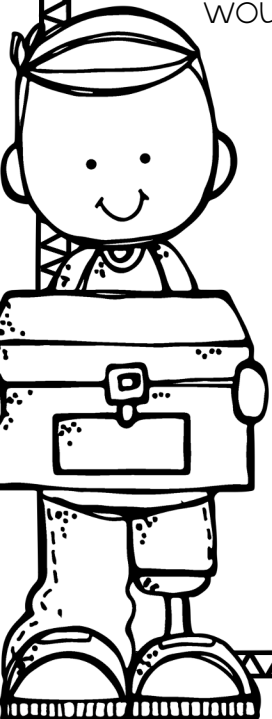
4. People with birthdays on February 29 are known as \_\_\_\_\_.

6. People born on February 29 sometimes celebrate their birthday on \_\_\_\_\_ 1.



**CODE WORD**

\_\_\_\_\_



# CREDITS



# THANK you!

## NOTE FROM THE SELLER:

Thank you so much for downloading! I sincerely hope that this resource meets your expectations and the needs of your classroom. Please know that your questions and suggestions inspire me. I enjoy hearing from you. My email address is [Jamie@notsowimpyteacher.com](mailto:Jamie@notsowimpyteacher.com). Don't forget to leave feedback and earn TPT points towards your next purchase. Click on the icons below so that we can stay in touch, and you don't miss updates on future products, sales, and giveaways.



♥ Jamie

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