

MS. GALY'S MATH ACTIVITIES - SUMMER 2018

Dear student, please choose three (3) activities to complete during your vacation. Don't forget to bring your work the first day of class.

DESIGN A TREE HOUSE:

The first step for any good design project is to do a lot of research. With the help of an adult look on the internet for different types of tree houses (<http://yourhometriad.com/how-to-build-a-treehouse-phase-one-picking-prepping-the-trees/>). Choose a house that you think you could design and somebody could build. Your tree house should be no bigger than a single or twin bed (38 in x 80 in). Your report should include the following:

Materials: What are you going to use to build your tree house?

Measurements: How wide and long is going to be?

Special Features: Does it have a door? Windows? What are you going to keep inside of your tree house?

Sketch/Blueprint: Use a ruler to draw your tree house. Don't forget to write the measurements of the tree house. Add color and special features to your tree house.

WHAT'S IN YOUR POCKET/WALLET?

Ask at least 8 different relatives or friends to show you how much money they have in their pockets/wallets. Use a chart to keep track of the money you counted for each person. Remember that you need your relative/friend's permission to know how much money they have.

Your chart should include the following:

- Name of the person (8 different relatives/friends).
- Amount of money in coins and bills for each person.

Once you recorded the money from 8 relatives/friends on your chart. You will answer the following questions:

- Who had more money?
- Who had the least amount of money?
- What is the difference between the person that had more money and the one that had the least amount of money?

GEOMETRICAL SHAPES (TOUCH MUSEUM)

During your vacation collect recycle materials that represent the following three-dimensional (3D) shapes:

- Cylinder
- Rectangular Prism
- Pyramid
- Cube
- Sphere

Label each one of the items with its corresponding name. In a piece of paper draw each item and explain the shape of your recycled material.

(Note: Bring your geometrical shapes to school in a plastic bag. Write your name on the plastic bag. Your collection will be part of a touch museum of geometrical shapes that we will build in our classroom (next year's kindergarteners and first graders will be invited to visit our museum).

LICENSE PLATES TALLIES:

I remember how many hours I spent in a car during my long summer vacation. Let's use that time to review how to collect, record, and interpret data on tally charts.

You will create a 3-column chart:

1. Name of the State.
2. License plate number odd or even.
3. Number of tallies for each state:

You will keep this chart inside of your car. You will inform the driver that you will be paying attention to the license plates around you that are NOT from Florida. You want to get as many different states as possible, so be attentive! Use the chart to keep track of what you find. Make sure you look well at the end of the license plate number to see if it is odd or even.

By August, I am sure you will have a lot of license plates from different states since many people around the USA visit FL during their summer vacation.

Once you have all the information you need you will use the data you collected to answer the following questions:

- Total amount of different states you were able to see?
- Total amount of license plate numbers that were odd?
- Total amount of license plate numbers that were even?
- Total amount of cars per state?
- Which state had more license plates? Why do think you were able to see more cars from that state?
- Which state had less license plates? Why do think you were able to see less cars from that state?

WHAT'S THE WEATHER LIKE?

Choose a day of the week and time of the day to check and record the temperature (you should check the temperature at the same hour and in the same day). Make a **Table Chart** to record the information you gathered. Your chart should include the following information:

- Day of the week that you chose to record the temperature.
- Time of the day in which you checked the temperature.
- Temperature in F°

After you collected the information of at least 6 different temperatures (please gather information about temperatures on June and some on July to see more changes of temperature), you will be able to answer the following information:

- What was the highest temperature?
- What was the lowest temperature?
- According to the information you gathered, what predictions could you make about the weather on August? Do you think the temperature will increase (warmer or hotter days), or do you predict that the temperature will decrease (cooler days)?

Note:

- With the help **of an adult** you could use this link to learn daily temperatures in the USA: <https://www.weather.gov/>

GAME: ADDITION TOP IT!

Play Addition Top It! All you need is a normal deck of number cards (take the Kings, Queens, Jacks, and Jokers out of the deck). **Instructions:** Shuffle the cards and place the deck face down. Each player turns over 2 cards and adds the numbers. The player with the largest sum takes all four cards. In the case of a tie for the largest sum, tied players each turn over 2 more cards and call out the sum. The player with the greatest number of cards wins the game.

Play this game as much as you can (it will help you master addition facts and number comparison). This is a perfect game to play with all family members. I can't wait to play with you when you come back on August!

POSTER: FRACTIONS EVERYDAY!

Explain how people use fractions in everyday life. Create a poster that shows:

- How people use fractions when taking medicine (the whole pill? Half a spoon?).
- How people use fractions when cooking (a recipe).
- How people use fractions when painting (how much paint?).
- How people use fractions when using money (25 cents, 50 cents)

Your poster should include an example for each situation. Drawings are encouraged!

TICK TACK, TICK TACK, TIME GOES FAST!

Keep a journal in which you will record the time in which you enjoyed a special activity or event. Your journal entries should:

- Show time in 3 different ways: Drawing an **analog clock**, matching the **time in words** and in **digital time**.
- You will need to label at least 8 special events you had during your summer vacation.
- You will write the complete date for each event: day, month, year.

RAINDROPS KEEP FALLING ON MY HEAD!

Record the amount of rain that falls by making a RAIN GAUGE. You will need to provide information about the amount of rain that fell during 5 different days of your summer vacation. For this investigation you need to **ask an adult** to show you how to build a water gauge with a disposable plastic bottle and an inch ruler:

<http://kvm.kvcc.edu/planetarium/astroinfo/RainGauge.pdf>

Make a poster that shows the information you gathered (date and amount of rain in inches). You could include an explanation about how you built your rain gauge so other children at school could build it too.

I WISH YOU A SAFE AND FUN VACATION!

SEE YOU ON AUGUST

**Ms. Galy
Second grade teacher**