AcadeMir Charter Schools

2024 SUMMER
5th GRADE PACKET

AcadeMir Charter School West
2024 Summer Learning Requirements

Dear Parent(s)/Guardian(s),

In preparation for the 2024 – 2025 school year and to ensure that our students maintain growth-oriented academia during the summer, the school curriculum team has created the following Summer Learning assignment for each student to complete by the first day of school. Each student must complete the Summer Learning Packet over the summer and turn it in to your classroom teacher by August 23, 2024.

Summer Reading

ACSW students will be expected to read the novel from the reading list for their incoming grade level. For example, if your child is entering 1st grade in the fall, he/she would read the 1st grade novel and complete the activity. Please note that this assignment will be worth one grade for Reading and one grade for Language Arts.

Mathematics Activities

ACSW students are required to complete the mathematics packet that pertains to their incoming grade level and/or assignment. For example, if your child is in the Accelerated Mathematics course in the elementary level, he/she needs to complete the Accelerated packet. For middle school, Algebra, Geometry, etc. is separated from the ELA, Science, and Social Studies packet. Please ensure that you do all the components.

Thank you for your partnership in ensuring your child continues to strive for excellence over the summer!
We look forward to an outstanding 2024 – 2025 school year!

Sincerely,

Susie Bello, Principal
AcadeMir Charter School West
bello@academircharterschoolwest.com

ACADEMIR
SUMMER READING
2023-2024

Summer provides a plethora of opportunities for students and their families to enjoy unforgettable books and create lifetime memories.

AcadeMir students entering K-8th grade are required to read from the summer reading lists developed by our Academic Team for the upcoming grade.

Creating lifelong readers is one of the greatest gifts that we can give our children. We want our students to have a fun summer break while also pursuing reading for enjoyment at the same time.

Research has shown that the single greatest factor in predicting reading success is whether a child is read to when they are young. All of our students are to read the selected book for their grade.

These assignments are for a grade and should be completed and turned in to your student's new ELA teacher by Friday, August 23rd.

Happy Reading and enjoy your summer break!!!

ACADEMIR CHARTER SCHOOLS

2024 Summer Reading List

Grade	Summer Reading	Author	Book Synopsis	Front Cover
Kindergarten	Swimmy	Leo Lionni	Deep in the sea there lives a happy school of little fish. Their watery world is full of wonders, but there is also danger, and the little fish are afraid to come out of hiding . . . until Swimmy comes along. Swimmy shows his friends how—with ingenuity and teamwork—they can overcome any danger.	
First Grade	From Seed to Pumpkin	Wendy Pfeffer	Pumpkins can be baked in a pie, carved into jack-o'-lanterns, and roasted for a healthy snack. But how does a tiny seed turn into a big pumpkin? With clear text and detailed, colorful illustrations, this book explains what a pumpkin seed needs to help it grow!	
Second Grade	Mango, Abuela, and Me	Meg Medina	Mia's abuela has left her sunny house with parrots and palm trees to live with Mia and her parents in the city. The night she arrives, Mia tries to share her favorite book with Abuela before they go to sleep and discovers that Abuela can't read the words inside. Then Mia sees a parrot in the pet-shop window and has the perfect idea for how to help them all communicate a little better.	
Third Grade	The Boxcar Children	Gertrude Chandler Warner	The Aldens begin their adventure by making a home in a boxcar. Their goal is to stay together, and in the process, they find a grandfather.	
Fourth Grade	The Lion, the Witch and the Wardrobe	C.S. Lewis	Narnia… the land beyond the wardrobe door, a secret place frozen in eternal winter, a magical country waiting to be set free. Lucy is the first to find the secret of the wardrobe in the professor's mysterious old house. At first her brothers and sister don't believe her when she tells of her visit to the land of Narnia. wardrobe themselves.	

ACADEMIR CHARTER SCHOOLS

2024 Summer Reading List

Grade	Summer Reading	Author	Book Synopsis	Front Cover
Fifth Grade	The City of Ember	Jeanne DuPrau	Many hundreds of years ago, the city of Ember was created by the Builders to contain everything needed for human survival. It worked…but now the storerooms are almost out of food, crops are blighted, corruption is spreading through the city and worst of all— the lights are failing. Soon Ember could be engulfed by darkness…	
Sixth Grade	Hatchet	Gary Paulsen	Brian is on his way to Canada to visit his estranged father when the pilot of his small prop plane suffers a heart attack. Brian is forced to crash-land the plane in a lake--and finds himself stranded in the remote Canadian wilderness with only his clothing and the hatchet his mother gave him as a present before his departure.	
Seventh Grade	Old Yeller	Fred Gipson	At first, Travis couldn't stand the sight of Old Yeller. The stray dog was ugly, and a thieving rascal, too. But he sure was clever, and a smart dog could be a big help on the wild Texas frontier, especially with Papa away on long cattle drive up to Abilene.	
Eighth Grade	The Swiss Family Robinson	John David Wyss	The Robinsons leave their home in Switzerland planning to settle half a world away. But things do not turn out as they had expected. The sole survivors of a terrible shipwreck, they wash ashore to learn that the danger has only begun. Their new world will test their courage, cleverness, endurance, and faith as they struggle to survive and create a civilization of their own in the wilderness.	
Ninth Grade	1984	George Orwell	The scene is London, where there has been no new housing since 1950 and where the city-wide slums are called Victory Mansions. Science has abandoned Man for the State. As every citizen knows only too well, war is peace. To Winston Smith, a young man who works in the Ministry of Truth (Minitru for short), come two people who transform this life completely.	

AcadeMir Charter Schools

ELA

Fifth Grade

Many hundreds of years ago, the city of Ember was created by the Builders to contain everything needed for human survival. It worked…but now the storerooms are almost out of food, crops are blighted, corruption is spreading through the city and worst of all— the lights are failing. Soon Ember could be engulfed by darkness…

WRITE A COMPLETE RESPONSE FOR THE FOLLOWING QUESTIONS

Students Name: _____   Date: _____

Title of book and authors name:

_____
_____
_____

Describe the setting of the book:

_____
_____
_____
_____

State the main character's name and describe the character:

_____
_____
_____
_____

What does that character value?

_____
_____
_____
_____

What is that character's personality like?

_____
_____
_____
_____

On a scale from 1-10 (10 being the best book you've ever read), how would you rate this book? Explain your reasoning.

_____

_____

_____

_____

List the sequence of events in the story. Circle the conflict, highlight in yellow the main idea, underline the resolution, and highlight in orange the main characters.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Summarize the story on a seperate sheet of paper.

Cursive passages: Stars

Trace and copy the passage:

In the sky, you can see the sun, stars and the moon. The sun is up during the day. It is very hot. The sun gives us light and heat. Plants need the sun to grow. We can see the stars at night. They give off light and heat, like the sun. That is because the sun is a star too! There are more stars than we can count.

AcadeMir Charter Schools

MATH

Name _____

Add Dollars and Cents

Find the sum.

1. $\begin{array}{r} \overset{1\ 1\ 1}{\$58.36} \\ +\ \$\ 5.87 \\ \hline \$64.23 \end{array}$

2. $\begin{array}{r} \$7.96 \\ +\ \$3.08 \\ \hline \end{array}$

3. $\begin{array}{r} \$98.45 \\ +\ \$\ 4.76 \\ \hline \end{array}$

4. $\begin{array}{r} \$14.66 \\ +\ \$30.76 \\ \hline \end{array}$

5. $\begin{array}{r} \$26.71 \\ +\ \$\ 5.09 \\ \hline \end{array}$

6. $\begin{array}{r} \$30.25 \\ +\ \$27.42 \\ \hline \end{array}$

7. $\begin{array}{r} \$54.01 \\ +\ \$85.23 \\ \hline \end{array}$

8. $\begin{array}{r} \$42.49 \\ +\ \$30.73 \\ \hline \end{array}$

9. $\begin{array}{r} \$\ 7.76 \\ +\ \$54.02 \\ \hline \end{array}$

10. $\begin{array}{r} \$21.06 \\ +\ \$63.48 \\ \hline \end{array}$

11. $\begin{array}{r} \$34.59 \\ +\ \$\ 7.45 \\ \hline \end{array}$

12. $\begin{array}{r} \$53.97 \\ +\ \$60.00 \\ \hline \end{array}$

13. $\begin{array}{r} \$71.25 \\ +\ \$\ 5.90 \\ \hline \end{array}$

14. $\begin{array}{r} \$40.39 \\ +\ \$17.25 \\ \hline \end{array}$

15. $\begin{array}{r} \$14.99 \\ +\ \$\ 5.23 \\ \hline \end{array}$

16. $\begin{array}{r} \$22.85 \\ +\ \$40.25 \\ \hline \end{array}$

17. $\begin{array}{r} \$\ 5.23 \\ +\ \$30.55 \\ \hline \end{array}$

18. $\begin{array}{r} \$43.32 \\ +\ \$86.85 \\ \hline \end{array}$

19. $\begin{array}{r} \$31.26 \\ +\ \$88.90 \\ \hline \end{array}$

20. $\begin{array}{r} \$83.77 \\ +\ \$60.35 \\ \hline \end{array}$

Problem Solving REAL WORLD

21. The bill for tonight's dinner is $56.85. Mr. Asham adds a $10.50 tip. How much does Mr. Asham pay in all?

_____

22. Maria buys a video game for $25.99 and batteries for $7.30. What is the total cost for these two items?

_____

Name _____

Subtract Dollars and Cents

Find the difference.

1. $\$58.36$
    $-\$26.87$
    $\overline{\$31.49}$

2. $\$3.05$
    $-\$1.18$

3. $\$9.43$
    $-\$7.08$

4. $\$6.25$
    $-\$4.88$

5. $\$15.20$
    $-\$\ 9.47$

6. $\$64.66$
    $-\$\ 3.85$

7. $\$80.00$
    $-\$\ 9.99$

8. $\$52.03$
    $-\$\ 7.46$

9. $\$73.18$
    $-\$18.42$

10. $\$21.64$
    $-\$10.95$

11. $\$48.57$
    $-\$20.69$

12. $\$60.35$
    $-\$39.54$

13. $\$91.32$
    $-\$\ 8.79$

14. $\$23.06$
    $-\$\ 6.97$

15. $\$58.30$
    $-\$\ 9.41$

16. $\$41.45$
    $-\$\ 7.59$

17. $\$34.20$
    $-\$18.15$

18. $\$56.20$
    $-\$20.50$

19. $\$43.17$
    $-\$30.09$

20. $\$95.44$
    $-\$78.56$

Problem Solving REAL WORLD

21. A soccer ball costs $\$17.99$. Karla hands the cashier $\$20.00$. How much change does she get back?

_____

22. Hal earned $\$56.50$ dog sitting last month. Liz earned $\$87.00$. How much more did Liz earn than Hal?

_____

Name _____

Order of Operations

Follow the order of operations to find the value of the expression. Show each step.

1. $3 + (18 \times 2) \div 3$

    $3 + 36 \div 3$
    $3 + 12$
    __15__

2. $(20 - 8) \times 2$

_____

3. $(48 \div 6) + 5$

_____

4. $(9 \times 4) + 6$

_____

5. $(10 + 5) \times 9$

_____

6. $(40 \div 10) + 11$

_____

7. $5 + (21 \div 3) \times 5$

_____

8. $7 \times 4 + (15 \div 3)$

_____

9. $6 + (24 \div 8) - 3$

_____

10. $43 - 28 + (12 \div 2)$

_____

11. $(13 \times 2) - 2 - 5$

_____

12. $15 + 6 \times (8 \div 4)$

_____

Problem Solving REAL WORLD

13. Each carton has 12 eggs. There are 2 full cartons in the refrigerator. Margot uses 3 eggs to make a quiche. How many eggs are left?

_____

14. There are 6 rows in the parking lot. Each row has 12 parking spaces. At 9 o'clock the lot is full. An hour later, there are 15 empty spaces. How many cars are in the lot an hour later?

_____

Name _____

Divide by Multiples of Ten

Divide. Use a pattern to help.

1. $1,500 \div 30 =$ ___50___

    $15 \div 3 = 5$, so $150 \div 30 = 5$.

                    $1,500 \div 30 = 50$

2. $2,000 \div 20 =$ _____

3. $4,000 \div 80 =$ _____

4. $6,000 \div 30 =$ _____

5. $9,000 \div 30 =$ _____

6. $8,000 \div 40 =$ _____

7. $1,000 \div 20 =$ _____

8. $3,500 \div 50 =$ _____

9. $8,100 \div 90 =$ _____

10. $6,400 \div 80 =$ _____

11. $2,400 \div 60 =$ _____

12. $6,000 \div 60 =$ _____

13. $2,100 \div 70 =$ _____

14. $5,400 \div 90 =$ _____

15. $2,700 \div 30 =$ _____

Problem Solving REAL WORLD

16. A food bank has 3,600 boxes of food. The boxes will be loaded equally onto 60 trucks. How many boxes of food will be on each truck?

_____

17. A stadium has a seating capacity of 8,000. Suppose it is divided into 20 equal sections. How many seats are in each section? **Explain.**

_____

_____

_____

_____

Name _____

Model Division with
2-Digit Divisors

Use base-ten blocks to divide.

1. 154 ÷ 11   **2.** 48 ÷ 16   **3.** 95 ÷ 19   **4.** 288 ÷ 16

_____14_____   _____   _____   _____

5. 120 ÷ 15   **6.** 140 ÷ 10   **7.** 132 ÷ 12   **8.** 204 ÷ 12

_____   _____   _____   _____

9. 250 ÷ 10   **10.** 154 ÷ 11   **11.** 39 ÷ 13   **12.** 165 ÷ 11

_____   _____   _____   _____

Problem Solving REAL WORLD

13. A theater has 126 seats. The theater has 14 rows with the same number of seats in each row. How many seats are in each row?

14. Leila has $360 in twenty-dollar bills. How many twenty-dollar bills does she have?

_____   _____

Name _____

Decimals and Place Value

Read and write the decimal in two other forms.

1. 7.32

seven and thirty-two
hundredths; 7 + 0.3 +
0.02

2. two and six tenths

_____

_____

3. 20 + 5 + 0.8 + 0.01

_____

_____

_____

4. 86.04

_____

_____

_____

Write the value of the underlined digit.

5. 6.2<u>4</u>

0.04
_____

6. 3.<u>2</u>

_____

7. <u>9</u>.07

_____

8. 0.4<u>8</u>

_____

9. <u>1</u>.65

_____

10. 0.<u>9</u>

_____

11. 5.1<u>3</u>

_____

12. 10.<u>8</u>2

_____

Problem Solving

Use the table below for 13 and 14.

Three runners finished a foot race with the following times.

Foot Race Times

Runner	Time (in seconds)
Erika	15.46
Andre	14.89
Conner	15.08

13. Which runner finished the race with a time that has the digit 8 in the hundredths place?

_____

14. What is Erika's time written in expanded form?

_____

Name _____

Round Decimals

Round to the nearest dollar or to the nearest whole number.

1. $3.18   **2.** 4.7   **3.** $7.02   **4.** 8.55

_____ _____ _____ _____

5. $1.89   **6.** 0.2   **7.** $0.75   **8.** 9.09

_____ _____ _____ _____

9. $9.51   **10.** 1.01   **11.** $8.49   **12.** 6.35

_____ _____ _____ _____

13. $0.85   **14.** 5.9   **15.** $1.05   **16.** 4.5

_____ _____ _____ _____

17. $4.15   **18.** 3.65   **19.** $1.99   **20.** 5.52

_____ _____ _____ _____

Problem Solving REAL WORLD

21. Camden spends $18.25 at the range. How much money did Camden spend, rounded to the nearest dollar?

22. Jolie bought 3.75 pounds of turkey at the deli. About how many pounds of turkey did Jolie buy?

_____ _____

Name _____

Place Value to Compare Decimals

Compare the decimals. Write <, >, or =.

1. 2.12 ◯ 2.2

2. 2.6 ◯ 2.64

3. 2.08 ◯ 2.8

4. 2.73 ◯ 2.77

5. 2.4 ◯ 2.40

6. 2.89 ◯ 2.876

7. 2.98 ◯ 2.09

8. 2.57 ◯ 2.75

9. 0.38 ◯ 0.34

10. 46.2 ◯ 46.20

11. 0.8 ◯ 0.88

12. 25.09 ◯ 25.48

Use a place-value chart to order the decimals from least to greatest.

13. 0.41, 0.49, 0.45

14. 8.95, 8.98, 8.9

15. 2.7, 2.77, 2.07

_____

_____

_____

_____

_____

_____

16. 1.23, 1.27, 1.25

17. 9.9, 9.99, 9.94

18. 3.4, 3.04, 3.44

_____

_____

_____

_____

_____

_____

Problem Solving REAL WORLD

19. Veronica drank 0.5 liter of water. Hector drank 0.3 liter of water. Who drank less water?

_____

20. Abby spent $6.36 on her lunch and Colby spent $6.63 on his lunch. Who spent less money on lunch—Abby or Colby?

_____

Name _____

Number Patterns

Describe the pattern. Then find the next two numbers in the pattern.

1. 4, 12, 36, 108, __324__ , __972__

Multiply by 3. _____

2. 14, 28, 56, 112, _____ , _____

_____

3. 2, 8, 32, 128, _____ , _____

_____

4. 1, 5, 25, 125, _____ , _____

_____

Determine the pattern and use it to fill in the blanks.

5. 1, 6, 36, _____, 1,296

6. 2, 6, _____, 54, _____

7. 3, _____, 48, _____, 768

8. _____, _____, 36, 108, 324

9. _____, 2, 4, 8, _____

10. 5, 20, _____, 320, _____

Problem Solving REAL WORLD

11. Pippen works at an aquarium. Each month, she counts the number of fish in one of the aquariums. She records the total number of fish in the table below. If the pattern continues, how many fish will be in the aquarium in Months 6 and 7?
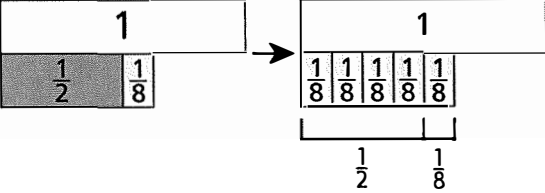
Month	1	2	3	4	5
Number of Fish	4	8	16	32	64

_____

Name _____

Add Related Fractions

Add. Use fraction strips to help.

1. $\dfrac{1}{2} + \dfrac{1}{8} =$ ____ $\dfrac{5}{8}$ ____

2. $\dfrac{1}{3} + \dfrac{2}{9} =$ _____

3. $\dfrac{2}{10} + \dfrac{1}{5} =$ _____

4. $\dfrac{2}{3} + \dfrac{1}{6} =$ _____

5. $\dfrac{2}{8} + \dfrac{1}{4} =$ _____

6. $\dfrac{4}{12} + \dfrac{2}{3} =$ _____

7. $\dfrac{4}{10} + \dfrac{1}{2} =$ _____

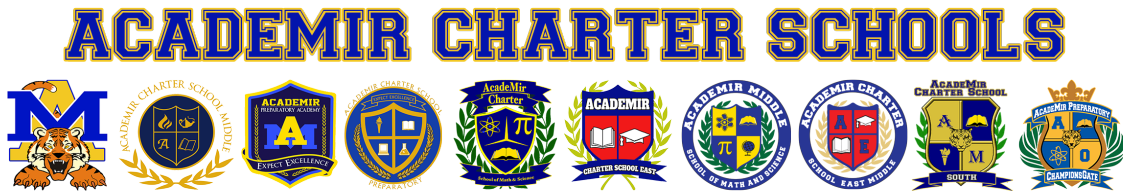**8.** $\dfrac{1}{2} + \dfrac{3}{6} =$ _____

Problem Solving REAL WORLD

9. The Lin family bought a dozen bagels. They ate $\frac{1}{4}$ of the bagels today and $\frac{5}{12}$ of the bagels yesterday. What fraction of the bagels did they eat in all? Explain how you found your answer.

_____

_____

_____

_____

10. The Smith family ate $\frac{3}{5}$ of a pizza for dinner and $\frac{2}{10}$ of the pizza for lunch the next day. How much of the pizza did they eat in all? Explain how you found your answer.

_____

_____

_____

_____

AcadeMir Charter Schools

SOCIAL STUDIES

5th Grade Social Studies

Summer Geography Project

Please select a country from the list below. Research your country and answer the questions on the following page. In addition, you are to write a one paragraph summary of the country that you have chosen. Enjoy your summer.

Countries to choose from:

Afghanistan	Ecuador	Mexico
Argentina	Egypt	Nicaragua
Australia	Ethiopia	Peru
Bahamas	France	Qatar
Belgium	Germany	Saudi Arabia
Brazil	Greece	South Africa
Cambodia	Haiti	South Korea
Chile	Honduras	Spain
China	India	Turkey
Columbia	Iraq	United Kingdom
Cuba	India	United States
Dominican Republic	Jamaica	Vietnam

My Country Research

country name

☐ Asia ☐ Australia ☐ Europe ☐ Africa ☐ N. America ☐ S. America

FACTS SHEET:
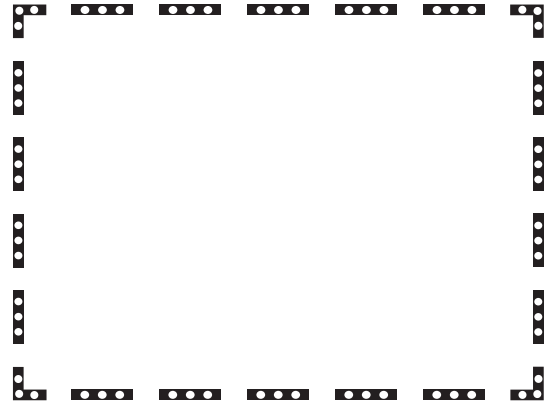
Area: _____

Population: _____

Capital: _____

Currency: _____

Languages: _____

_____

Climate: _____

Famous-Foods/Products: _____

_____

✎ flag of the country

Current Leader(s):

_____

_____

FUN FACTS ABOUT THIS COUNTRY:

1. _____

2. _____

3. _____

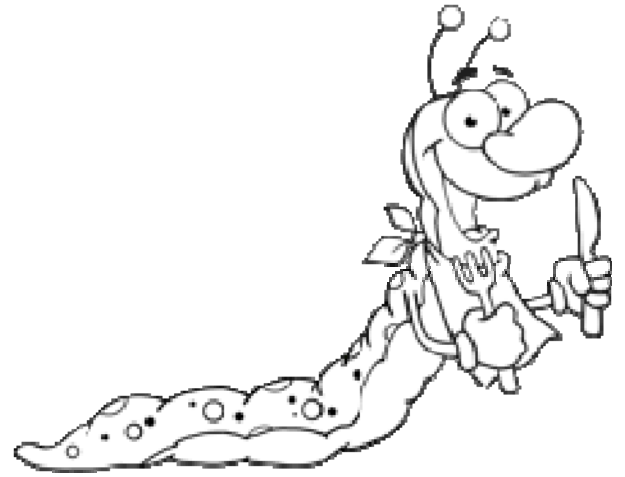On a seperate sheet of paper, please write a one paragraph summary of the country you chose.

AcadeMir Charter Schools

SCIENCE

Some Ways Animals Gather Food

All animals need food. No matter where an animal lives, finding food is an important work it must do in order to survive. However, different animals differ in the food they eat. They also differ in the way they get their food. Animals obtain their food a number of ways such as:

1) Scavenging for scraps that other animals have left behind
2) Killing and eating other animals
3) Collect and gather vegetation

Many animals have special kinds of teeth. Some teeth are for biting and tearing, while others are for grinding. Dogs, cats, lions, tigers and wolves have pointed canines (teeth); they use these teeth for ripping and tearing their prey to pieces. They use their molars for grinding the meat.

Herbivores like cows, horses, sheep and giraffes have broad, flat molars (teeth). They use their molars to chew and mash plants and grass etc.
Some kinds of **owl** hunt for food at night. These owls have a very keen sense of hearing. If a mouse is around, the owl can determine exactly where it is by the noise it makes. Then it swoops down and catches the mouse with its sharp claws and eats it.

Frogs have tongues that can move fast and catch insects. **Turtles** have no teeth, but they have a beak with a sharp edge which they use for cutting food. Some have strong jaws with which they capture their prey. Turtles eat plants and animals.

Some **fish** feed on plants, while others feed on animals. Some fish have teeth; others have none. The shark has strong jaws and triangular teeth which bite into its prey. A piranha can tear its prey to pieces with its razor sharp teeth. Some fish can leap from the water to grab an insect or a plant near the water. Oysters, clams and mussels use their gills for feeding. **Snakes** swallow their prey whole. They have teeth that curve back toward the throat. They use their teeth to pull the prey back to the throat.

The Ways Animal Gather Food Writing Activity

1. Why do some animals have flat teeth? How does it help them in getting food?

    _____

    _____

    _____

    _____

    _____

2. Write three different ways in which animals obtain food?

    _____

    _____

    _____

    _____

3. Explain in your own words, how does a fish get its food?

    _____

    _____

    _____

    _____

    _____

    _____

    _____

4. Is it possible that Herbivore animals (like cows or goats) starts eating flesh?

    Hint : Think in perspective of their teeth

    _____

    _____

    _____

    _____

5ᵗʰ Grade Summer Science Activity

"Making Invisible Ink"

Introduction

Have you ever wanted to write a secret message to a friend that only they could read? This summer project is going to show you how to make invisible ink with simple items you can find around your house. Let's make some invisible ink!

Materials

- Baking soda
- Paper
- Water
- Light bulb (heat source)
- Paintbrush or cotton swab
- Measuring cup
- Purple grape juice (optional)

Procedures

1. Mix equal parts water and baking soda.
2. Use a cotton swab, toothpick, or paintbrush to write a message onto white paper, using the baking soda solution as "ink."
3. Allow the ink to dry.
4. One way to read the message is to hold the paper up to a heat source, such as a light bulb. You can also heat the paper by ironing it. The baking soda will cause the writing in the paper to turn brown.
5. Another method is to paint over the paper with purple grape juice. The message will appear in a different color. The grape juice acts as a pH indicator that changes color when it reacts with the sodium bicarbonate of baking soda, which is a base.

Additional information

1. If you are using the heating method, avoid igniting the paper; don't use a halogen bulb.
2. Baking soda and grape juice react with each other in an acid-base reaction, producing a color change in the paper.
3. The baking soda mixture can also be used more diluted, with one-part baking soda to two parts water.
4. Grape juice concentrate results in a more visible color change than regular grape juice.

Why this works?

Writing a secret message in baking soda solution slightly disrupts the cellulose fibers in paper, damaging the surface.

When heat is applied, the shorter, exposed ends of the fibers darken and burn before the undamaged sections of paper.

If you apply too much heat, there's a risk of igniting the paper. For this reason, it's best to use either the grape juice chemical reaction or else apply a gentle, controllable heat source.

Your task

Write a nice message for your new teacher in invisible ink and show her as your evidence that you completed the science project.