

Activity Sheets
for
The Popcorn Burglar

Book #1

in the

 **Silvee Spoon, Junior Chef**
Science Mysteries



SCIENCE ACTIVITIES

with

SILVEE



DANCING RAISINS

Drop a raisin into a clear glass of lemon-lime soda or sparkling water and watch it ride the bubbles up and down.

Bubble Counter: Count how many seconds it takes for a raisin to rise to the top and sink back down. Write it down. Now try with 8 raisins. Count how long it takes them to rise and sink back down.

The Science: The carbon dioxide gas bubbles attached themselves to the raisins. This creates buoyancy, which is an invisible upward pushing force that makes objects float.

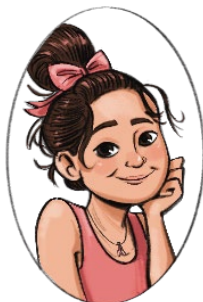
COLOR-CHANGING MILK

Pour $\frac{1}{2}$ cup of whole cow's milk onto a shallow plate. Add 2 drops of food coloring to the milk. Then touch the center with a cotton swab dipped in dish soap. What do you see?

- Draw a picture of the color patterns that you see.
- Repeat the test with water. Write down which liquid made the biggest color explosion.

The Science: The molecules in soap connect with the fat molecules in milk, which causes the color to swirl around.

TRINA’S WORD SEARCH PUZZLE



Find these words and draw a circle around each one:

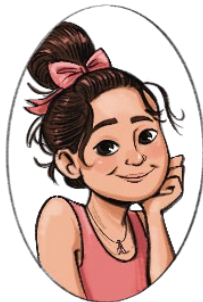
Trina
Parker
Chandler
Silvee
Blake

Pickle
Custodian
Ballet
Drums
Hashbrown

H	Q	W	S	A	J	M	V	B	P	D	W	O	F	G
Y	G	T	I	Q	K	N	V	B	A	L	L	E	T	O
L	B	U	L	Y	K	M	H	P	Q	D	S	N	M	J
M	G	M	V	O	C	P	A	R	K	E	R	L	W	A
S	V	B	E	H	P	Q	S	K	X	D	O	L	P	K
Y	B	H	E	M	T	Z	H	P	Y	R	V	X	I	O
G	B	V	C	T	H	F	B	N	R	U	K	X	C	B
Q	L	G	G	B	R	D	R	U	M	S	S	B	K	L
P	A	G	V	B	N	U	O	K	J	A	T	P	L	Z
Y	K	B	B	R	J	L	W	X	Q	A	F	Y	E	M
N	E	B	T	C	H	A	N	D	L	E	R	J	U	V
F	H	J	K	L	O	I	R	E	D	C	X	Z	A	X
P	M	T	R	I	N	A	J	Y	C	P	K	L	L	M
Y	T	G	C	U	S	T	O	D	I	A	N	R	W	Q
M	D	H	T	T	C	Z	K	N	I	P	Z	E	D	T

Answer Key

TRINA'S WORD SEARCH PUZZLE



Find these words and draw a circle around each one:

Trina
Parker
Chandler
Silvee
Blake

Pickle
Custodian
Ballet
Drums
Hashbrown

H	Q	W	S	A	J	M	V	B	P	D	W	O	F	G
Y	G	T	I	Q	K	N	V	B	A	L	L	E	T	O
L	B	U	L	Y	K	M	H	P	Q	D	S	N	M	J
M	G	M	V	O	C	P	A	R	K	E	R	L	W	A
S	V	B	E	H	P	Q	S	K	X	D	O	L	P	K
Y	B	H	E	M	T	Z	H	P	Y	R	V	X	I	O
G	B	V	C	T	H	F	B	N	R	U	K	X	C	B
Q	L	G	G	B	R	D	R	U	M	S	S	B	K	L
P	A	G	V	B	N	U	O	K	J	A	T	P	L	Z
Y	K	B	B	R	J	L	W	X	Q	A	F	Y	E	M
N	E	B	T	C	H	A	N	D	L	E	R	J	U	V
F	H	J	K	L	O	I	R	E	D	C	X	Z	A	X
P	M	T	R	I	N	A	J	Y	C	P	K	L	L	M
Y	T	G	C	U	S	T	O	D	I	A	N	R	W	Q
M	D	H	T	T	C	Z	K	N	I	P	Z	E	D	T

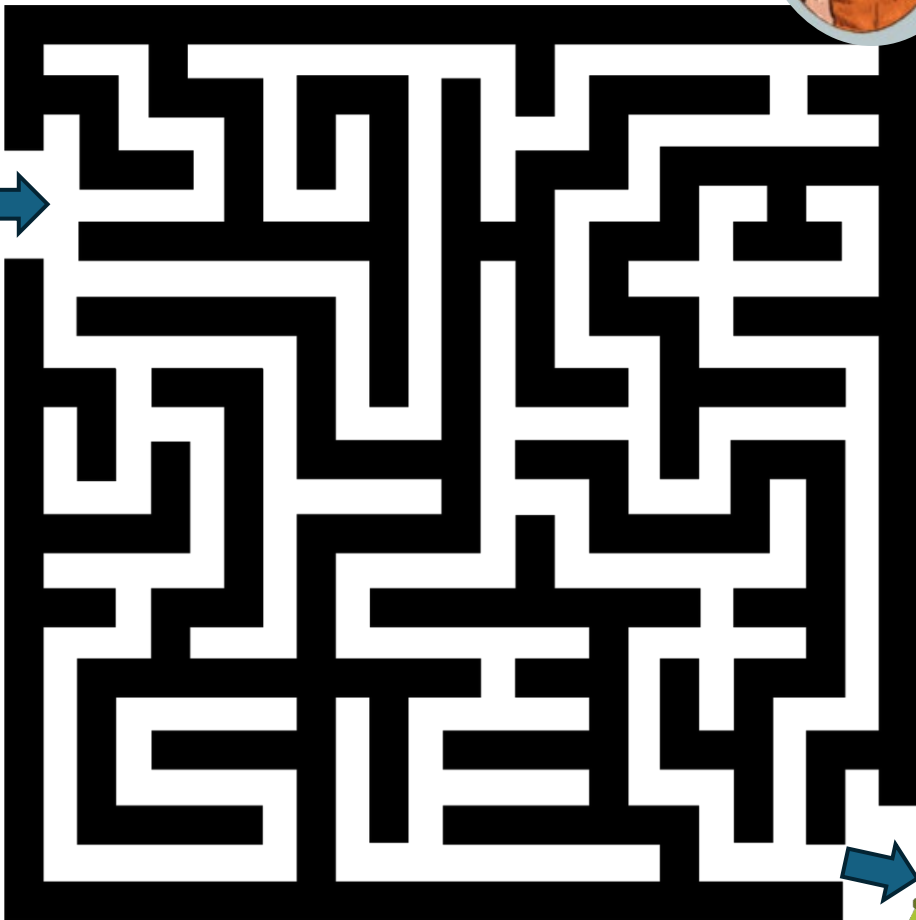
Hashbrown is Hungry

Maze

Help her find her way to her food dish



Start



Parker's Secret Math Challenge

Parker discovered five math clues hidden around the apartment building.

Solve each one, then use the code to reveal the mystery word!



Clue 1

Silvee baked **36** mini muffins.

She gave **14** to Trina to share with her friends at ballet.

How many are left?

$$36 - 14 = \underline{\hspace{2cm}}$$

Clue 2

There are **9** tables on the back wall of The Fried Pickle Restaurant.

Each table has **4** chairs.

How many chairs are there?

$$9 \times 4 = \underline{\hspace{2cm}}$$

Clue 3

After helping clean the kitchen of The Fried Pickle, the kids put away **56** clean plates.

They stacked the plates evenly on **8** shelves.

How many plates were on each shelf?

$$56 \div 8 = \underline{\hspace{2cm}}$$

Clue 4

Parker found **23** clues on Monday and **19** more on Tuesday.

How many clues did he find?

23 + 19 = _____

Clue 5

Fill in the missing number.

6 × □ = 30

□ = _____

 Crack the Code!

Match each answer to its letter.

Number Letter

7	A
5	K
22	S
36	N
42	C

Write the letters in the order of your answers to the Clues:

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____

Secret Word:

Parker's Secret Math Challenge

✓ Answer Key

1. $36 - 14 = 22 \rightarrow S$
2. $9 \times 4 = 36 \rightarrow N$
3. $56 \div 8 = 7 \rightarrow A$
4. $23 + 19 = 42 \rightarrow C$
5. $6 \times \square = 30 \rightarrow 5 \rightarrow K$

Secret Word: SNACK

"Great detective work! Parker knows every good mystery is easier to solve after a tasty snack!"





Criss-Cross Match Puzzle for The Popcorn Burglar

Write the number of the answer in front of each question

- | | | |
|--------------|--------------------------|---|
| 1. Blake | ☐ | Who is the building owner's son? |
| 2. Trina | ☐ | What shape is printed on Silvee's chef hat? |
| 3. Drums | ☐ | What is the cat's name? |
| 4. Popcorn | ☐ | Who likes trivia? |
| 5. Ballet | ☐ | Who likes to cook? |
| 6. Heart | ☐ | What instrument does Parker play? |
| 7. Hashbrown | ☐ | What food helped solve the mystery? |
| 8. Chandler | ☐ | What kind of dance lessons did Trina take? |
| 9. Silvee | ☐ | What is the name of the triplets' brother? |



Criss-Cross Match Puzzle for
The Popcorn Burglar

Answer Key

- | | |
|--------------|---|
| 1. Blake | 8 Who is the building owner's son? |
| 2. Trina | 6 What shape is printed on Silvee's chef hat? |
| 3. Drums | 7 What is the cat's name? |
| 4. Popcorn | 2 Who likes trivia? |
| 5. Ballet | 9 Who likes to cook? |
| 6. Heart | 3 What instrument does Parker play? |
| 7. Hashbrown | 4 What food helped solve the mystery? |
| 8. Chandler | 5 What kind of dance lessons did Trina take? |
| 9. Silvee | 1 What is the name of the triplets' brother? |