MATH MYSTERY

CASE OF THE

SUPER BAD SUPERHERO

GRADE K

MRS J'S RESOURCE CREATIONS ©

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Teacher Resource Instructions

PREPARATION

Print and copy pages 5 -11 for your students. You can do either of the following:

- Combine the pages to form a booklet for each student to work on; OR
- Hand out worksheets as you want students to work on them – please note that if you choose this option, students will always need the 'Math Mystery Case File (Page 5)' page handy.

HOW TO USE

You can choose to use this resource in a number of ways. Some suggestions are:

- Complete one clue page daily as part of daily math practice or mental math warmup.
- Use as an early finisher task for fast/advanced students.
- Homework practice (1 page per day or week)
- Complete all at once as a whole class (guided/groups/pairs/independently)

Read through the article on page 4 'Math Mystery: Case of the Super Bad Superher' to set up the activity and engage students. An optional video has also been provided to use when introducing the activity.

Instruct students that they will need to keep referring back to their Math Mystery Case File after solving each clue. This page is where they must paste their answer cut outs from the relevant clue page. There are 5 clues to be completed to discover the what, when, where, who and why of the mystery.

Students work through each clue, either guided by the teacher or independently (your choice depending on your class' ability). *I recommend, that if they are struggling to work through the worksheets, to model the activity on the board and step students through what to do*. After completing a math worksheet, if students completed the questions correctly, they will discover which picture to cut out. For example: solve the subtraction problems, the hero with the lowest answer is the Super Bad Superhero. So, students will need to match the hero picture with one of the pictures at the bottom of the page to be cut out. They then go paste the cut out on their case file under the same clue number as the worksheet they just worked on. .

Once students have correctly completed all of the clues, all five clue boxes will have information about the mystery case. At the bottom of the page, the teacher ticks off the '*Well done . . .* ' box and the student can receive an Award (provided on page 18). If a student gets it wrong, circle the clues they need to check and tick the second box "*Oops! Try again*," and instruct the student to go over their work to see where they went wrong.

On page 11, I have provided an optional literacy extension activity to be completed after all 5 clues have been discovered. Here students must write an article for Mathhattan's Newspaper explaining the details of their investigation on the case. They will need their case file to assist with their writing. This option is great for advanced students.

ANSWERS

I have provided answer sheets for all of the clues. You will find these on pages 12-17. This includes a completed case file.

AWARDS

On page 18 you will find awards that you can print and give to students who solve the case correctly. I suggest making it a rule that students complete all of the questions on each worksheet to be eligible for the award, a detective must have all evidence showing.

If you need help, have any questions, or notice an error in my work please email me on

JJResourceCreations@gmail.com

Thanks! ☺

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MATH MYSTERY: CASE OF THE SUPER BAD SUPERHERO

Date: _____

It is no secret that many superheroes reside on the island of Mathhattan. They usually help fight against crime and provide protection for us all. Sadly, something has changed and someone with superpowers is beginning to cause lots of trouble. This super bad superhero has begun to scare, intimidate and kidnap citizens! The police are powerless, and are unsure as to which superhero we can truly trust anymore...it could be any one of them! People no longer feel safe and are concerned this antihero is unstoppable.

Patrick, the Mayor of Mathhattan, addressed the public earlier this morning with the following speech:
"***Stay inside your homes, shut your windows and lock your doors, keep your phones handy for help and be wary of anyone wearing a mask. The MBI (Mathhattan Bureau of Investigation) and other secret sources have recently confirmed that this villain is actually one of who we call superheroes of Mathhattan. It is a mystery to us which superhero to trust and who we cannot. It is going to take some of our finest math detectives to work with the MBI on this serious case; no superhero can be involved. Hopefully, if we can discover who this terrible superhero is, we can put a stop to this chaos and release all of the captured citizens. Until we can reveal who is behind this, we ask that you hand over any evidence or information that you come across to help solve this mystery."***

As the mayor stepped off the podium, a large puff of smoke blasted out of nowhere! As the smoke began to settle a shadowy silhouette took hold of the mayor and before anyone could do anything. . . "POOF!" They both disappeared. The Mayor is now a prisoner of this super bad superhero.

THE POLICE NEED YOUR HELP!

The police need you to discover:

- *WHEN the Super Bad Superhero was last seen?*
- *WHAT super power is the Super Bad Superhero using?*
- *WHERE is the Super Bad Superhero hiding?*
- *WHO is the Super Bad Superhero?*
- *WHY did the Super Bad Superhero kidnap the people?*

Name: _____

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MATH MYSTERY CASE FILE

Math Mystery: Case of The Super Bad Superhero!

INSTRUCTIONS:

Paste your cut outs from each clue into the empty clue spaces below. Each clue will tell you whether the answer is for the **who, where, when, what or why. Present your case file once all five squares have been filled.**

WHEN

Was the Super Bad Superhero last seen?

Clue 1

WHAT

super power is being used?

Clue 2

WHERE

is the Super Bad Superhero hiding?

Clue 3

WHO

is the Super Bad Superhero?

Clue 4

WHY

did this happen?

Clue 5

Teacher to check and tick

☆ ☐ **Well done you have correctly solved the mystery! The Super Bad Superhero has been found and arrested. Thanks to your amazing work, the mayor and all of the people have been safely returned home!**

! ☐ **Oops! No that is not correct. Check your clues and try again.**

Name: _____

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WHEN WAS THE SUPER BAD SUPERHERO LAST SEEN? – CLUE 1

Detective, we need you to find out WHEN the Super Bad Superhero was last seen! Solve the addition sums next to each day of the week below. The day with the **highest answer** is the day the Super Bad Superhero was last seen.

Sunday	1	+	4	=	
Monday	3	+	1	=	
Tuesday	2	+	6	=	
Wednesday	1	+	2	=	
Thursday	4	+	2	=	
Friday	9	+	1	=	
Saturday	1	+	1	=	

Cut out the correct day of the week square and paste in the **WHEN** (Clue 1) box on your Math Mystery Case File page.

Sunday	**Monday**	**Tuesday**	**Wednesday**
Thursday	**Friday**	**Saturday**	

Name: _____

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WHAT SUPER POWER IS BEING USED? – CLUE 2

One of the super powers at the bottom of the page is being used by the Super Bad Superhero! Discover WHAT it is by counting how many power objects are in each box for each super power. The power that has the **most objects** counted, is what power the Super Bad Superhero is using. Write the total number of objects in the empty box.

Cut out the correct power picture and paste in the **WHAT** (Clue 2) box on your Math Mystery Case File page.

Fire

Lightning

Ice

Speed

Slime

Name: _____

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WHERE IS THE SUPER BAD SUPERHERO HIDING? – CLUE 3

Find out where the Super Bad Superhero is hiding! Discover WHERE it is by coloring the squares using the number color clues. If done correctly, the hideout will be revealed in the mystery picture. Match the place you discover with the correct hideout picture box at the bottom of the page.

1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
1	1	1	2	1	1	1	1	1	1	1	2	2	2	1	1	1
1	1	2	2	2	1	1	1	1	1	3	3	3	3	3	1	1
1	3	3	3	3	4	1	1	3	3	3	3	3	3	3	4	
3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	4
3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	4	3	3	3	6	3	3	3
5	6	6	5	5	5	5	5	5	5	6	5	6	6	6	5	5
6	6	6	6	5	5	5	5	5	6	6	6	6	6	6	6	5
6	6	6	6	6	6	6	5	5	5	7	5	5	7	5	5	5
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Clues:

1 = Light Blue
2 = White
3 = Light Gray
4 = Dark Gray
5 = Dark Green
6 = Light Green
7 = Brown

Cut out the correct hideout picture and paste in the **WHERE** (Clue 3) box on your Math Mystery Case File page.

Castle

Cave

Mountains

Lighthouse

Ice-Cream Shop

Name: _____

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WHO IS THE SUPER BAD SUPERHERO? – CLUE 4

Detective, it is time to solve WHO the Super Bad Superhero is! Solve the subtraction questions next to each superhero. The superhero with the **lowest answer** is the Super Bad Superhero!

Mrs. Amazing

8 – 1 = _____

Super Bolt

10 – 1 = _____

Robo Man

4 – 2 = _____

Dare Girl

6 – 2 = _____

Thunder Hawk

3 – 2 = _____

Mega Mage

5 – 2 = _____

Mini Wonder

9 – 1 = _____

Grumble Bird

7 – 2 = _____

Flame Guy

7 – 1 = _____

Major Fury

5 – 3 = _____

Cut out the correct Super Bad Superhero picture and paste in the **WHO** (Clue 4) box on your Math Mystery Case File page.

Mrs. Amazing

Super Bolt

Robo Man

Dare Girl

Thunder Hawk

Mega Mage

Mini Wonder

Grumble Bird

Flame Guy

Major Fury

Name: _____

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WHY DID THE SUPERHERO GO BAD? – CLUE 5

You arrest and bring in the Super Bad Superhero for questioning with the police. Discover why the superhero went bad by writing the number represented in the ten frames next to the picture reasons. The picture reason row with the **highest answer** is the WHY picture to paste to your case file. Write the total number of objects in the empty box.

Wanted friends!

Feeling angry!

Want to take over The city!

Lost their power gem!

Sad with the rubbish in the city.

Cut out the correct reason picture and paste in the **WHY** (Clue 5) box on your Math Mystery Case File page.

Wanted friends!

Feeling Angry!

Want to takeover the city!

Lost their Power Gem!

Sad with the rubbish in the city.

Name: _____

LITERACY EXTENSION ACTIVITY

CASE OF THE SUPER BAD SUPERHERO

You will need your completed Math Mystery Case File to do this activity.

Write an article for Mathhattan's Newspaper about the information you discovered on your investigation. You MUST include the Who, Where, When, What and Why details of the case.

_____

_____

_____

_____

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_____

_____

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_____

_____

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_____

_____

_____

_____

_____

Regards,

Detective _____

(Your name)

Name: _____

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ANSWER SHEET – CLUE 1

Detective, we need you to find out WHEN the Super Bad Superhero was last seen! Solve the addition sums next to each day of the week below. The day with the **highest answer** is the day the Super Bad Superhero was last seen.

Sunday	1	+	4	=	5
Monday	3	+	1	=	4
Tuesday	2	+	6	=	8
Wednesday	1	+	2	=	3
Thursday	4	+	2	=	6
Friday	9	+	1	=	10
Saturday	1	+	1	=	2

Cut out the correct day of the week square and paste in the **WHEN** (Clue 1) box on your Math Mystery Case File page.

Sunday | **Monday** | **Tuesday** | **Wednesday**

Thursday | **Friday** | **Saturday**

Name: _____

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ANSWER SHEET – CLUE 2

One of the super powers at the bottom of the page is being used by the Super Bad Superhero! Discover WHAT it is by counting how many power objects are in each box for each super power. The power that has the **most objects** counted, is what power the Super Bad Superhero is using. Write the total number of objects in the empty box.

9

11

7

15

12

Cut out the correct power picture and paste in the **WHAT** (Clue 2) box on your Math Mystery Case File page.

Fire

Lightning

Ice

Speed

Slime

Name: _____

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ANSWER SHEET – CLUE 3

Find out where the Super Bad Superhero is hiding! Discover WHERE it is by coloring the squares using the number color clues. If done correctly, the hideout will be revealed in the mystery picture. Match the place you discover with the correct hideout picture box at the bottom of the page.

1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
1	1	1	2	1	1	1	1	1	1	1	2	2	2	1	1	1
1	1	2	2	2	1	1	1	1	1	3	3	3	3	3	1	1
1	3	3	3	3	4	1	1	3	3	3	3	3	3	3	4	
3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	4
3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	4	3	3	3	6	3	3	3
5	6	6	5	5	5	5	5	5	5	6	5	6	6	6	5	5
6	6	6	6	5	5	5	5	5	6	6	6	6	6	6	6	5
6	6	6	6	6	6	6	5	5	5	7	5	5	7	5	5	5
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Clues:

1 = Light Blue
2 = White
3 = Light Gray
4 = Dark Gray
5 = Dark Green
6 = Light Green
7 = Brown

Cut out the correct hideout picture and paste in the **WHERE** (Clue 3) box on your Math Mystery Case File page.

Castle

Cave

Mountains

Lighthouse

Ice-Cream Shop

Name: _____

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ANSWER SHEET – CLUE 4

Detective, it is time to solve WHO the Super Bad Superhero is! Solve the subtraction questions next to each superhero. The superhero with the **lowest answer** is the Super Bad Superhero!

Mrs. Amazing

8 – 1 = 7

Super Bolt

10 – 1 = 9

Robo Man

4 – 2 = 2

Dare Girl

6 – 2 = 4

Thunder Hawk

3 – 2 = 1

Mega Mage

5 – 2 = 3

Mini Wonder

9 – 1 = 8

Grumble Bird

7 – 2 = 5

Flame Guy

7 – 1 = 6

Major Fury

5 – 3 = 2

Teacher note:

You could make it that the students must complete all of the questions before telling them that the superhero with the lowest answer is the culprit.

Cut out the correct Super Bad Superhero picture and paste in the **WHO** (Clue 4) box on your Math Mystery Case File page.

Mrs. Amazing

Super Bolt

Robo Man

Dare Girl

Thunder Hawk

Mega Mage

Mini Wonder

Grumble Bird

Flame Guy

Major Fury

Name: _____

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ANSWER SHEET – CLUE 5

You arrest and bring in the Super Bad Superhero for questioning with the police. Discover why the superhero went bad by writing the number represented in the ten frames next to the picture reasons. The picture reason row with the **highest answer** is the WHY picture to paste to your case file. Write the total number of objects in the empty box.

Wanted friends!			16
Feeling angry!			18
Want to take over The city!			11
Lost their power gem!			14
Sad with the rubbish in the city.			17

Cut out the correct reason picture and paste in the **WHY** (Clue 5) box on your Math Mystery Case File page.

Wanted friends!	**Feeling Angry!**	**Want to takeover the city!**	**Lost their Power Gem!**	**Sad with the rubbish in the city.**

Name: _____

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MATH MYSTERY CASE FILE ANSWERS

Math Mystery: Case of The Super Bad Superhero!

INSTRUCTIONS:

Paste your cut outs from each clue into the empty clue spaces below. Each clue will tell you whether the answer is for the **who, where, when, what or why. Present your case file once all five squares have been filled.**

WHEN

Was the Super Bad Superhero last seen?

Friday

WHAT

super power is being used?

Speed

WHERE

is the Super Bad Superhero hiding?

Mountains

WHO

is the Super Bad Superhero?

Thunder Hawk

WHY

did this happen?

Feeling Angry!

Teacher to check and tick

☆ ☐ **Well done you have correctly solved the mystery! The Super Bad Superhero has been found and arrested. Thanks to your amazing work, the mayor and all of the people have been safely returned home!**

! ☐ **Oops! No that is not correct. Check your clues and try again.**

Super Detective Work!

Awarded To:

For solving the Math Mystery:

Case of The Super Bad Superhero

Super Detective Work!

Awarded To:

For solving the Math Mystery:

Case of The Super Bad Superhero

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