



## Mission Objective

(Print one for each group)

The Queen of Hearts has trapped your whole class in her old abandoned house.

In order to escape, you must use your knowledge of number facts to convince her to let you go.

She has created a number of riddles for you to solve and won't let you escape until you can give her the answer to all 5.

Solve the problems at each level and be sure to record each answer so that you can tell her the answer to the riddles.

Once all levels are complete, retrieve the completion code to break out and save the day.

You must hurry and escape before you remain trapped in her house for a long time....and believe me, she is a dreadful cook!!!

And has a very bad temper (Her favourite saying is "Off with their heads!" but don't worry, she is all bluff)



## Teacher Directions and Preparation

### What is Included?

- A set of printable workcards and Puzzles
- Master code sheet (1 for each group)
- A PowerPoint version of the game
- A Google forms version of the game (see the links on the next page)

### How to set up the activity

- Print a master code sheet for each group or pair, and a set of workcards if using a printed version
- Give students the link to the Google forms version if you are going to be using iPads to complete this activity
- Print award certificates and achievement keys for each puzzle.

### Plastic bags to keep activity sheets in, and placed around the room

- Students have a pack each of all of the worksheets and they will get a new puzzle/challenge each time that they complete the puzzle and show the final result to the teacher. (Teacher has the master sheets to double check answers)

### How long will this activity take?

This activity would easily take an hour to complete, depending on the skills and abilities of the students. I would recommend working in groups no smaller than 4, so that they can divide the challenge tasks up between them, or they can have designated roles

1. Code breaker – who looks up the symbol and completes it on the answer sheet
2. IT responder who records the correct answers into the Google forms document
3. Mathematicians who take on the task of completing the activities.
4. I strongly suggest that these roles are rotated throughout the activity.



# Teacher Directions and Preparation

## What is an escape room?

- An Escape room is a puzzle game in which students solve riddles and puzzles and find clues to finish tasks. In this Escape Room students solve puzzles to receive reward cards.
- No, there is not actually a room that is locked-although you could set up your event in that way.

## Setting up the activity

- Read through all the teacher directions. Copy the code sheet, puzzles, and answer sheets.
- How much time will it take to prep? It takes me about 30 minutes to copy, laminate, and set up. Less time if you have the sheets already printed and laminated before hand.

## How does it work?

Divide your class into teams. Each team will have the clue sheets and the first puzzle to start .

Explain that the first clue will have a riddle to solve, and they can move on to the next one once it is solved. The aim is to complete all 5 puzzles plus the final hidden code. It is important to keep track of each team, and the puzzle that they are up to

The team that unlocks the 5 puzzles and the hidden code first will be declared the winners. The offer of a prize is up to your discretion.



|   |   |                                                                              |   |   |   |   |   |
|---|---|------------------------------------------------------------------------------|---|---|---|---|---|
|   |   |                                                                              |   |   |   |   |   |
| a | b | c                                                                            | d | e | f | g | h |
|   |   |                                                                              |   |   |   |   |   |
| i | j | k                                                                            | l | m | n | o | p |
|   |   |                                                                              |   |   |   |   |   |
| q | r | s                                                                            | t | u | v | w | x |
|   |   | <p>MASTER SHEET FOR<br/>CODE BREAKING.</p> <p>(Print one for each class)</p> |   |   |   |   |   |
| y | z |                                                                              |   |   |   |   |   |



Other Resources from my store that you may enjoy

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

**Oceanview Resource**



Worksheet #1: Use Your knowledge of square numbers to find the answer to these. Choose the correct answer and write the icon in the code box on the answer page following.

|                                |     |     |     |
|--------------------------------|-----|-----|-----|
| $\sqrt{100} \times \sqrt{121}$ | 221 | 121 | 120 |
| $\sqrt{49} \times \sqrt{100}$  | 70  | 170 | 541 |
| $\sqrt{81} \times \sqrt{81}$   | 810 | 81  | 162 |
| $\sqrt{169} \times \sqrt{100}$ | 268 | 130 | 109 |
| $\sqrt{49} \times \sqrt{64}$   | 56  | 113 | 121 |
| $\sqrt{144} \times \sqrt{25}$  | 60  | 120 | 160 |
| $\sqrt{121} \times \sqrt{64}$  | 185 |     |     |
| $\sqrt{144} \times \sqrt{4}$   | 148 |     |     |
| $\sqrt{81} \times \sqrt{100}$  | 181 |     |     |



What does The White Rabbit eat at Easter?

|  |  |  |  |  |  |   |  |  |  |
|--|--|--|--|--|--|---|--|--|--|
|  |  |  |  |  |  | - |  |  |  |
|  |  |  |  |  |  |   |  |  |  |

Answer Quiz 1



Worksheet #2 How well do you know Square Numbers?  
Join your answer to the correct card and record them on the answer sheet.



|         |  |       |  |
|---------|--|-------|--|
| 2 x 2   |  | 1 x 1 |  |
| 10 x 10 |  | 3x3   |  |
| 4 x 4   |  | 5 x 5 |  |
| 6 x 6   |  | 8 x 8 |  |
| 7 x 7   |  | 9 x 9 |  |
| 11 x 11 |  |       |  |



#2 How does Alice know the caterpillar so well?



|   |     |    |    |    |    |
|---|-----|----|----|----|----|
|   |     |    |    |    |    |
| 4 | 100 | 16 | 36 | 49 | 16 |
|   |     |    |    |    |    |

|   |   |     |    |    |     |
|---|---|-----|----|----|-----|
|   |   |     |    |    |     |
| 1 | 9 | 121 | 25 | 64 | 100 |
|   |   |     |    |    |     |





### Worksheet #5 :

Use your knowledge of halves to find the answer to these.  
Choose the correct answer and write the icon in the code box on the answer page following.

|               |                                                                                   |               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|
| Half of 220 = |  | ½ of 400 =    |  |
| Half of 180 = |  | ½ of 320 =    |  |
| ½ of 440 =    |  | Half of 280 = |  |
| Half of 360 = |  | ½ of 500 =    |  |
| ½ of 140 =    |  | ½ of 1000     |  |
| ½ of 300 =    |  | Half of 660 = |                                                                                   |
| Half of 900 = |  |               |                                                                                   |

H E S A R L D O N



Why doesn't the Queen of Hearts go to the Mad Hatter's tea parties?

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |

|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  |  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|
|  |  |  |  |  |  |  |  |  |  |
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  |  |

|                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
|                                                                                     |                                                                                     |                                                                                     |

Answer Quiz 5



## ANSWER SHEETS

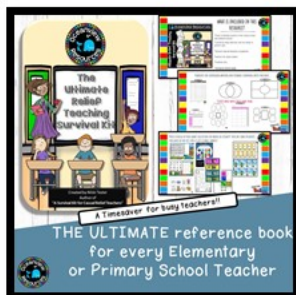
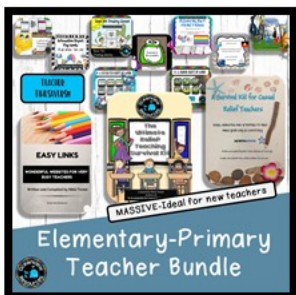


Congratulations  
You have solved  
Puzzle #1

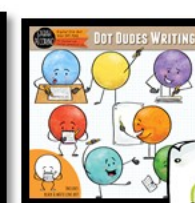
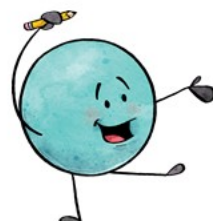


Congratulations  
You have solved  
Puzzle #2





## Connect With Me



Other Resources from my store that you may enjoy

Credit to these wonderful Clipartists



## Terms of Use and Copyright



Thank you for your purchase! By purchasing this resource, you are agreeing that the contents are the property of Nikki Tester@OceanView Resources and licensed to you only for classroom/personal use as a single user. I retain the copyright, and reserve all rights to this product.



YOU MAY:



- ☐ Use items (free and purchased) for your own classroom students, or your own personal use.
- ☐ Reference this product in blogposts, at seminars, professional development workshops, or other such venues provided there is both credit given to myself as the author and a link back to my SELZ store <https://nikkitester.selz.com/> or website <http://www.oceanviewlearningcentre.com/> is included in your post/presentation.
- ☐ Distribute and make copies of free items only to the teachers provided there is credit given to Nikki Tester and a link back to my SELZ store <https://nikkitester.selz.com/> or website <http://www.oceanviewlearningcentre.com/>



YOU MAY NOT:



- ☐ Claim this work as your own, alter the files in anyway, or remove/attempt to remove the copyright/watermarks.
- ☐ Sell the files or combine them into another unit for sale/free.
- ☐ Post this document for sale/free elsewhere on the internet (this includes Google Doc links on blogs, drop box etc).
- ☐ Make copies of purchased items to share with others is strictly forbidden and is a violation of the Terms of Use, along with copyright law.
- ☐ Obtain this product through any of the channels listed above. Thank you for abiding by universally accepted codes of professional ethics while using this product. ©Nikki Tester@OceanView Resources. @classroomdecorpacks

