



13. Dig the Data Teacher Guide for the Q9 Breakout Activity **(2 class periods)**



[Dig the Data](#)

[Q9 Breakout Activity](#)

Learning Objectives:

1. know how to analyze data and create different visual representations [Computational Thinker, Creative Communicator]
2. understand how spreadsheets, charts, and visual representations can help organize, evaluate, and present data [Knowledge Constructor]
3. know different ways of organizing and sharing abstract representations of data [Creative Communicator]

Pre-Planning for a Digital Breakout Quest Activity

- Log into the [Teacher Resource section](#) to view the solutions for the breakout (the username and password were provided when you completed the registration survey).
- Try the breakout activity so that you know what hints or clues to give students.
- Decide how you want them to show the completed it (screenshot of the award, the award pasted into their Student Showcase portfolio, or have you view their award onscreen, or other means.)
- Decide if you want students to return to the main Q9 page and do any of the additional activities: Creating graphs of data or Playing the Bracketology Game
- If students are not familiar with a Digital Breakout Challenge you can direct them to and/or show the information in the content box labeled: **What is a Digital Breakout and How to Solve It?**

Digital Breakout Activity

- Students will open the breakout room, figure out the clues to unlock it, and complete the challenge.
- Students can do a screenshot of the completion award, and/or share it with you or put it into the Student Showcase Portfolio to turn in.

***[Teachers please use this link for a very short survey about this breakout.](#)

Tools/Apps/Videos to be pre-checked for access by the student:

Breakout Websites Accessed

- [Breakout](#)
- [4-digit number Lock: I Spy Activity](#)
- [9 Color Lock Linked Page](#)
- [7 Direction Lock Google Doc Page](#)

Helpful tutorial videos or extra resources for the teacher for this Quest

Digital breakout rooms (aka escape rooms) are being created for some of the Quest activities. These are like puzzles where students use clues to solve them.

- [What is a Digital Breakout?](#) A Google Slide Presentation.
- Some examples and resources for more information: [Digital Escape](#) with examples, from [Ditch That Textbook](#), [Planning guide](#) to create them easily.

***[Teachers please use this link for a very short survey about this breakout.](#)

This is a list of similar activities and games to “[Learn the Value of Money](#)” from Avvo.
(Thanks to Ally for sharing this resource)

No Student Checklist

Broken Link or Content Update Report



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Subject: Dig the Data

Google Site Link: <https://sites.google.com/remc.org/21t4sbreakout-13q9/home>

Locks Answer Key:

Type of lock and combination	Clue	EdTech Tools
4 digit number Lock: 9637	Students will see a picture of a hand holding a magnifying glass and looking at a document the lock is hyperlinked to that image. When students click that picture it will take them to the I SPY picture. Students	- I SPY Google Drawing



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	will count up how many line graphs, column graphs, bar graphs, and pie graphs that are like the key image shown, and in that order, to get the 4-digit lock.	
4-letter Lock: data (all lowercase, no space)	Students will find this 4 letter word within the introduction of the breakout. Students will see each letter in bold orange . The order in which the letters come up in the paragraph spells the word “data”.	None
7 Direction Lock: ddrdrdd (all lower case, d=down, u=up, r=right, l=left)	Students will see the State of Michigan image at the bottom of the Google Site. It has the State flag on it. The image has been hyperlinked to the Google Doc directional lock page. When students click on the link they will be taken to the Google Doc. Students must start on the “Start Here” box to move. As they read the clues at the bottom, and in order, they will determine which word works best to answer each clue. As they move they must keep track of the direction they are moving to get to the end blue box. d (drive alone), d (smartphone), r (fast food), d (14-year-old), r (increased), r (dentist), d (census)	- Google Doc
9 Color Lock: gbprggbr (all lowercase. NO SPACES g=green, b=blue, r=red, p=purple)	This is an image with 9 boxes of questions located in the middle of the page. Students will read each question 1-9 and as they answer they will have to keep track of the color of each correct answer. There is a hint at the bottom of the picture reminding students to keep track of the color.	https://www.census.gov/programs-surveys/sis/resources/games/quiz.html



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