

Mole Mazes

Digital for Google Apps

Directions:

Begin at the box labeled **START**. Your answer will lead you to the next box. Continue through the maze until you have reached the **FINISH** box. Use the moveable arrows to the right to overlay the path you took.

HINT: This maze has 3 unused boxes – these will not have a correct answer coming off of them. If you land on one of these, go back & correct your previous mistake before moving on.

Name: <type here>

Drop & Drag Arrows

The maze contains the following boxes and connections:

- START:** How many atoms are in 1.15 mole Cu?
 - Left: 6.022 x 10²³ compounds is equal to (1.91 x 10⁻²⁴ atoms)
 - Right: FINISH (7.71 x 10²³ atoms)
 - Down: 2 mol (6.93 x 10²³ atoms)
- Top-Left:** 6.022 x 10²³ compounds is equal to
 - Right: START (1.91 x 10⁻²⁴ atoms)
 - Down: 2 mol (6.93 x 10²³ atoms)
- Top-Right:** FINISH
 - Left: START (7.71 x 10²³ atoms)
 - Down: subtract (5.09 x 10²³ atoms)
- Middle-Left:** Which would have more particles: 1 mole Au or 1 mole Ag?
 - Right: They are equal. (1.34 x 10²⁴ molecules of CH₄ is how many moles?)
 - Down: 1 mole Ag (2.23 mol)
- Middle-Right:** When converting from moles to atoms, you use Avogadro's number.
 - Left: subtract (5.09 x 10²³ atoms)
 - Right: How many atoms are in 0.845 mol Ca? (7.13 x 10²³ atoms)
 - Down: multiply (1)
- Bottom-Left:** How many molecules are in 0.00573 mol of C₆H₁₂O₆?
 - Right: How many moles are in 6.31 x 10²⁴ C atoms? (3.45 x 10²¹ compounds)
- Bottom-Middle:** How many moles are in 6.31 x 10²⁴ C atoms?
 - Left: How many molecules are in 0.00573 mol of C₆H₁₂O₆? (3.45 x 10²¹ compounds)
 - Right: Calculate the number of atoms in 1.48 mol of Al. (3.16 mol)
- Bottom-Right:** Calculate the number of atoms in 1.48 mol of Al.
 - Left: How many moles are in 6.31 x 10²⁴ C atoms? (3.16 mol)
 - Right: How many steps is a mole to particle conversion? (9 atoms)
- Bottom-Far-Right:** How many steps is a mole to particle conversion?
 - Left: Calculate the number of atoms in 1.48 mol of Al. (9 atoms)

Drop & Drag Arrows legend:

- Horizontal double-headed arrow
- Vertical double-headed arrow
- Diagonal double-headed arrow (top-right)
- Diagonal double-headed arrow (bottom-right)
- Diagonal double-headed arrow (top-left)
- Diagonal double-headed arrow (bottom-left)

Mole Mazes – Digital for Google Apps

Scaffold mole calculations with these 4-leveled engaging mole calculations mazes for your chemistry students. These chemistry mazes address mole calculations in 4-levels:

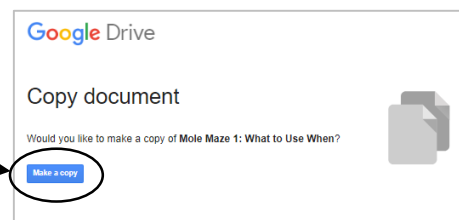
- Level 1: What to Use When
- Level 2: Mole to Particles Conversions
- Level 3: Mole to Gram Conversions
- Level 4: Grams to Particles Conversions

You and your students must have Google accounts and an internet connection to access this activity.

This activity pairs well when followed by the [Introductory Moleville – Digital for Google Apps](#) activity.

Accessing the Activities

1. Be sure you logged into the Google account you want to save these files into first. When you select the links below, it will ask you to make a copy of the assignment. Select “Make a Copy”.

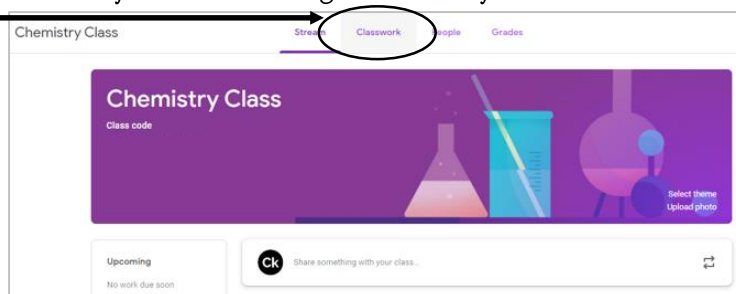


Student File	Answer Key
Level 1: What to Use When	Answer Keys
Level 2: Mole to Particles Conversions	
Level 3: Mole to Gram Conversions	
Level 4: Grams to Particles Conversions	

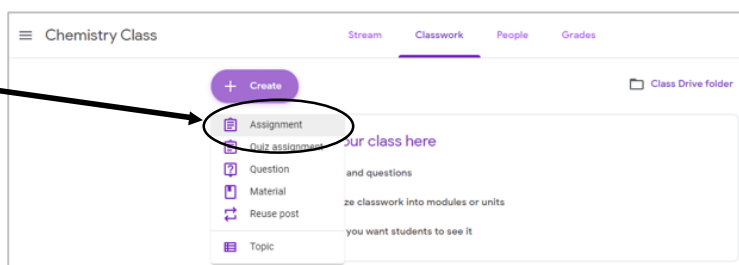
2. This copy in your drive is now your Master Template. I would recommend changing the name of the file and organizing the file into a folder so that you can easily access it later.

Sharing with Students on Google Classroom™

1. Once you have opened Google Classroom, select the class you'd like to assign the activity to.
2. Go to the “Classwork” tab at the top.



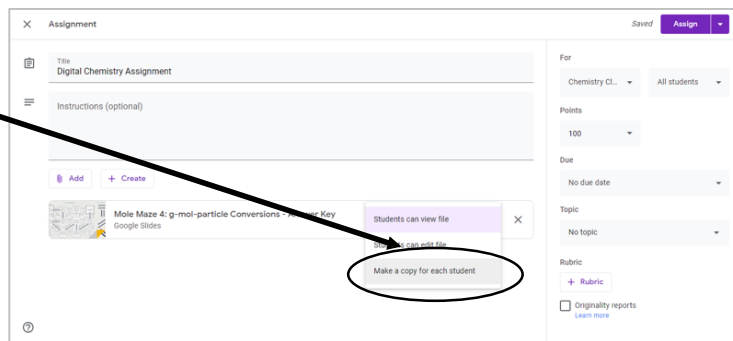
3. Once on the Classwork tab, create an “Assignment”.



Mole Mazes – Digital for Google Apps cont.

4. Locate the file in your Google drive. Select “Make a Copy for Each Student” so that students will be able to work on the activity on his/her device without changing your original file.

If you choose “Students can edit the file,” they will be able to edit your original file, which you most likely don’t want.



If you need any assistance, contact me at KateCk@ChemKate.com.

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Thank you!

