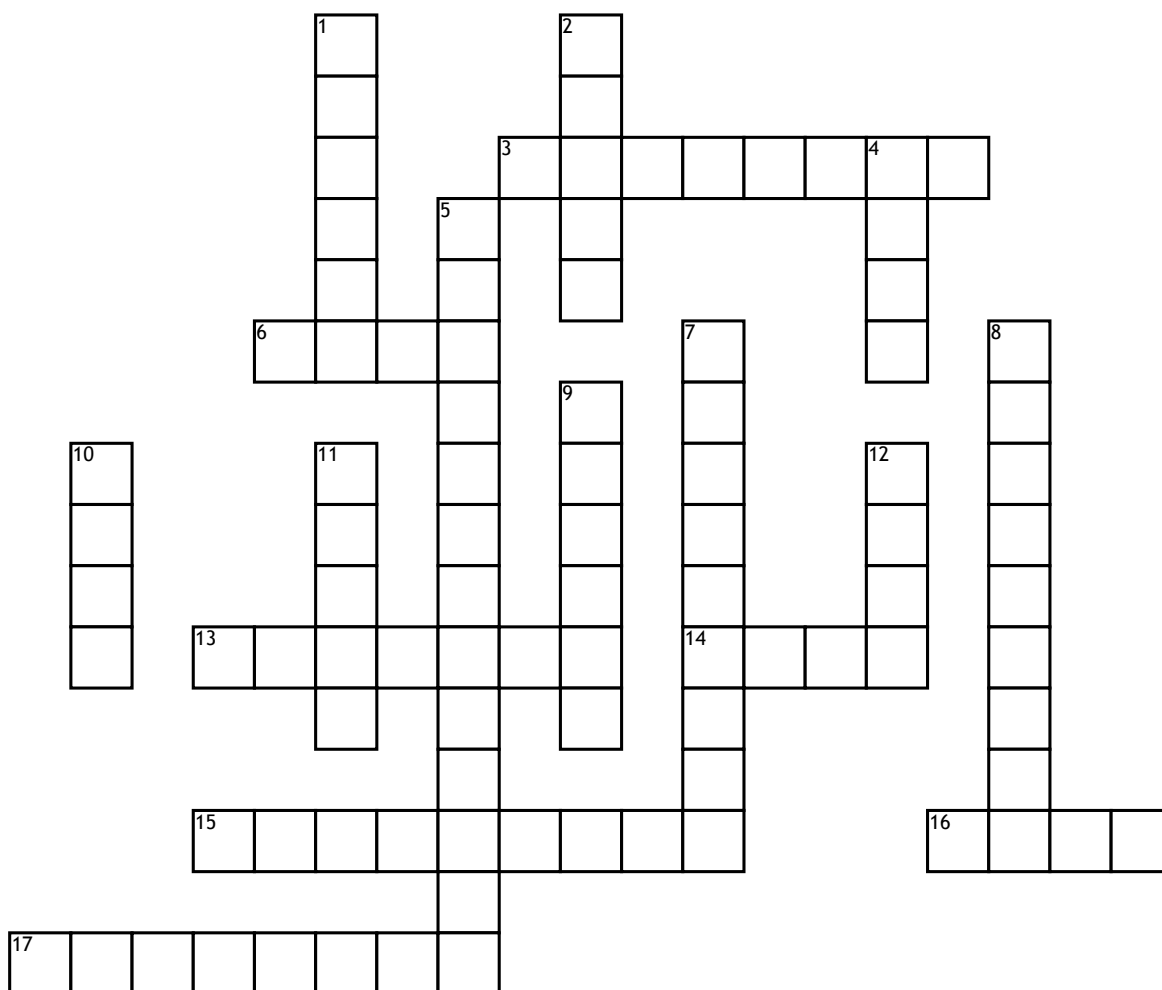


Name: \_\_\_\_\_

# Mole Day: The Periodic Table of the EleMOLEments



## Across

3. Atom decided upon in First Chemical Congress

6. A small brown animal that burrows underground

13. Allows chemists to \_\_\_\_\_ the weight of substances given they have the same number of atoms

14. Mass of 1 atom of carbon in amu

15. National Mole Day

16. The amount of substance containing the same number of atoms as 12 grams of carbon-12

17. You can have a mole of...

## Down

1. Avogadro's first name

2. Country Avogadro is from

4. Year of the First Chemical Congress

5. How big the number

$6.022 \times 10^{23}$  is

7. Avogadro's Number

8. Presented paper in support of Avogadro's hypothesis

9. Purpose of First Chemical Congress was to determine how \_\_\_\_\_ of different elements could be measured

10. When Avogadro first proposed his hypothesis

11. Helps convert from \_\_\_\_\_ to atoms

12. Mass of  $6.022 \times 10^{23}$  atoms in grams for carbon