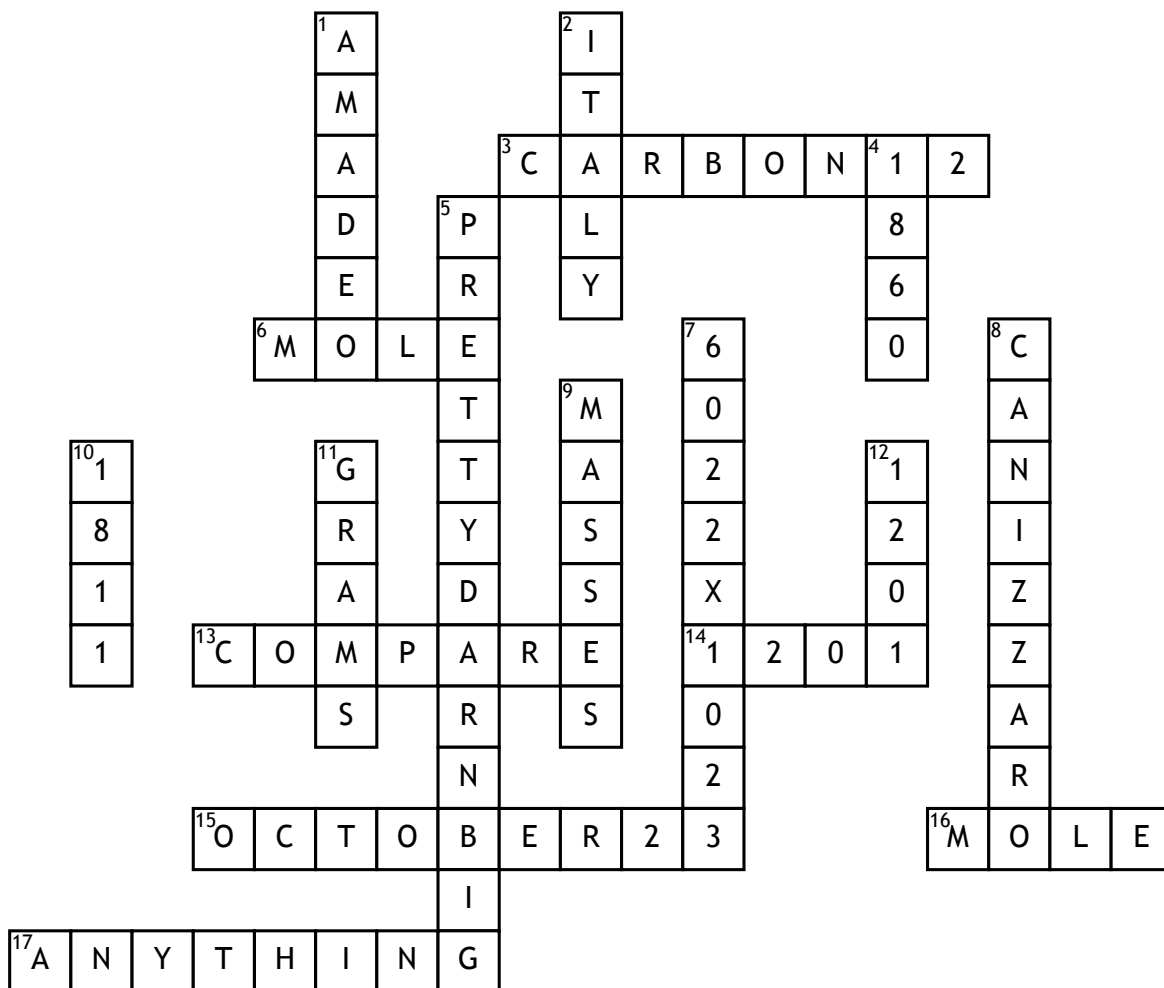


Name: _____

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 6.022×10^{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 6.022×10^{23} atoms in grams for carbon