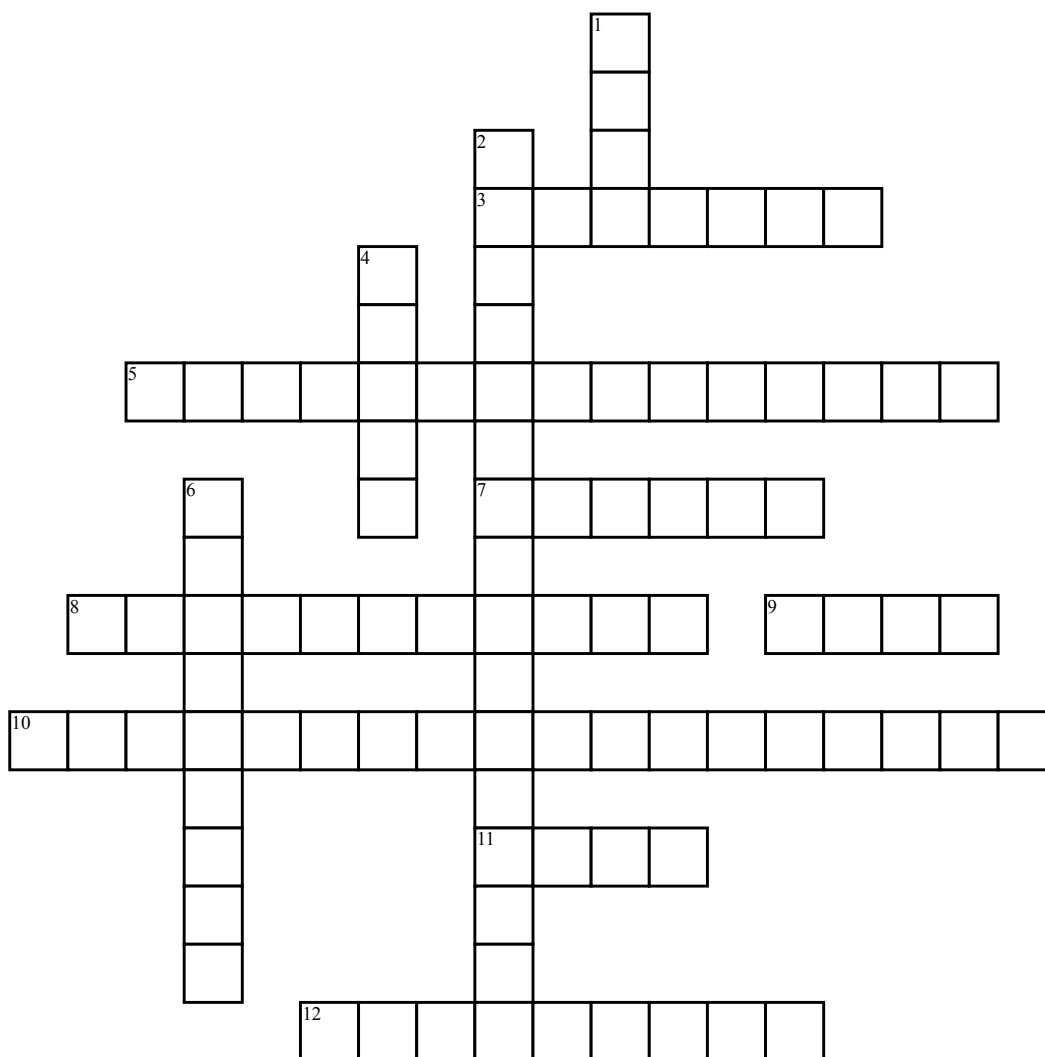


Mole Day Crossword Challenge



Across

3. Mole is an abbreviation for the German word _____.

5. A constant symbolized by "N,"

7. Chemical analysis of citric acid shows that it contains 37.51% C, 4.20% H, and 58.29% O. What is its empirical formula?

8. The volume that one mole of any gas occupies at a specified temperature and pressure.

9. The mass of 18.0 L of CH₄ (STP).

10. The mass of each separate element divided by the total mass of the compound, which is then multiplied by 100%.

11. A _____ represents the amount of a substance that contains the same number of particles as there are atoms in 12 grams of carbon-12.

12. The mass in grams of one mole of a substance, numerically equal to the atomic, formula, or molecular mass of a substance.

Down

1. The volume, in litres, of 835 g of SO₃ (STP).

2. Lowest possible whole-number ratio of atoms of each different element in a particular compound.

4. Percent to mass, mass to mole, divide by _____, multiply 'til whole .

6. Formula that represents the actual number of atoms of each different element in a molecular compound.