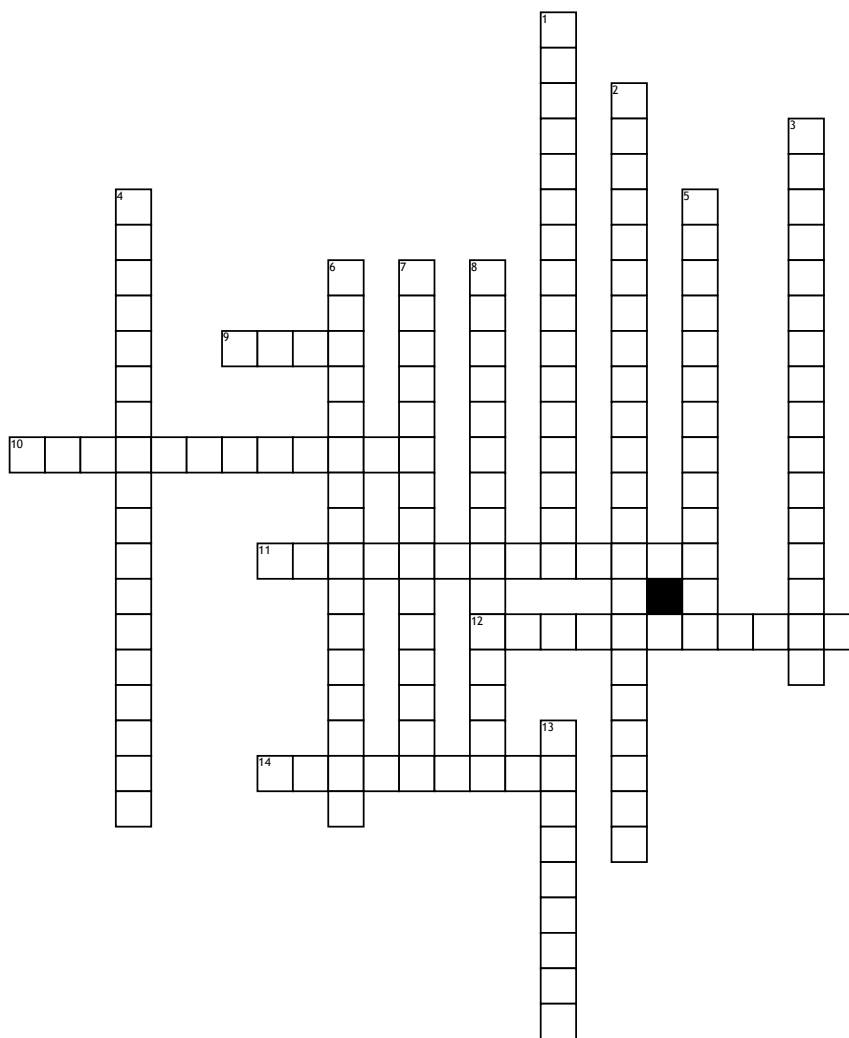Name: _____   Date: _____   Period: _____

Introduction to the Mole

Across

9. the amount of a substance that contains 6.02 x 10^23 representative particles of that substance

10. the ratio of the actual yield to the theoretical yield for a chemical reaction expressed as a percentage

11. a reagent present in a quantity that is more than sufficient to react

12. the amount of product that dorms when a reaction is carried out in the laboratory

14. a conversion factor derived from the coefficients of a balanced chemical equation interpreted in terms of moles

Down

1. a chemical formula of a molecular compound that shows the kinds and numbers of atoms present in a molecule of a compound

2. the smallest unit into which a substance can be broken down without a change in composition

3. a formula with the lowest whole-number ratio of elements in a compound

4. the percent by mass of each element in a compound

5. the calculation of quantities of substances involved in chemical equations (numerical relationships)

6. the amount of product that could form during a reaction calculated from a balanced chemical equation

7. the number of representative particles contained in one mole of a substance

8. the reactant that determines the amount of product that can be formed by a reaction

13. a term used to refer to the mass of a mole of any substance

Word Bank

molecular formula	mole	limiting reagent	theoretical yield
Avogadros number	percent yield	excess reagent	stoichiometry
mole ratio	representative particle	molar mass	actual yield
empirical formula	percent composition		