# *ChemMatters* Puzzle: Chemical Syllabism

Just as a molecule is assembled from atoms, so are words put together from syllables. In this puzzle we will show you the syllables that make up NINE common terms from the world of chemistry… but scrambled! Your task is to learn the nine words. Below, we give you the syllable list (in alphabetical order) and a clue for each term. If you know it, you can cross off its syllables since each is used exactly once. The number of syllables in each is given in parentheses following the clue.

We offer a few hints that may aid you.

1. The first letters, reading down, yield the last name of a famous chemist.

2. Notice that each term has one letter marked with an asterisk. When read down they identify the concept he/she is most famous for. Many of the nine terms relate to this and other varied contributions he/she made to chemistry.

Your teacher can perhaps guide you to learning about them.

The thirty-one SYLLABLES (in alphabetical order):

AC AC BI DI DI DROX ER ES HY I IDE IZ LET NI O O ON RA

RA SOL TI TION TIVE TRA TRATE UL UM UM UTES VA VI

**Clues: Terms:**

1 . . . . . energy, described in collision theory. (4) \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

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2. Capable of nuclear transformation. (5) \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

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3. Element first isolated by Marie Curie.(3) \_ \_ \_ \_ \_ \_

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4. (OH)1-, by name. (3) \_ \_ \_ \_ \_ \_ \_ \_ \_

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5. Its X-170 isotope has 102 neutrons. (3) \_ \_ \_ \_ \_ \_

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6. Any salt of nitric acid ends in this name. (2) \_ \_ \_ \_ \_ \_ \_

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7. What a HCl molecule does when in water. (4) \_ \_ \_ \_ \_ \_ \_

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8. Beyond the blue end of the E-M spectrum. (5) \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

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9. If sea water is a solution, NaCl is one of the … (2) \_ \_ \_ \_ \_ \_ \_