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Mole Day: The Periodic Table of the EleMOLEments

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|  |  |  |  |  |  |  A |  |  | 3C |  A |  R |  B |  O |  N | 41 |  2 |  |  |  |
|  |  |  |  |  |  |  D |  | 5P |  |  L |  |  |  |  |  8 |  |  |  |  |
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|  |  |  |  |  | 6M |  O |  L |  E |  |  |  | 76 |  |  |  0 |  | 8C |  |  |
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|  |  |  8 |  |  |  |  R |  |  Y |  |  S |  |  2 |  |  |  2 |  |  I |  |  |
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| **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 x 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 x 10^23 atoms in grams for carbon |