Tech	Square
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A Dopey Puzzle (Solution)

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The answers to the clues can be partially spelled out using some of the two- or three-letter "silicon segments" listed below. However, in order to complete the answers, one or more of the boxes must be filled in with a chemical element symbol, taken from the list of "dopants." Treating each word as a 5-bit value, with the presence or absence of an elemental "dopant" representing 1 or 0, we can spell the word TWENTY-EIGHT, which is both the value "encoded" by the final answer and the dopant used in that answer: element 28 is nickel, or Ni. Taking the indicated letters from the silicon segments spells REVERSE THEM, which is a required processing step before assembling the circuit. 28 is 11100 in binary, so the answer will be of the form IN IN each blank is filled with one of the remaining silicon segments, reversed. The only combination that makes sense is INDEFINITE INTEGRAL, which is the answer. One teaching or learning in the 10100=T R Но ME SC OL ER house 2nd With "The," legendary heptad of 10111=W \mathbf{E} **EVE** NWI **EMA** TER sages (3 wds.) 00101=E VI CTUG Author of Les Miserables (2 wds.) RH 1st AQ AC LT RE Raising food in water 01110 = N \mathbf{E} U U 2nd 10100 = TR Те OS RO NE Male sex hormone 1st ORY **OUR SEL** 11001=Y **END** Rely on nobody else (3 wds.) 1st 00101=E MOL ECU **RFO** RMU N₂ or SiHCl₃, say (2 wds.) \mathbf{E} 1st AR 01001=I T BEEΤ RE Go back (3 wds.) Αt 2nd Political activism as a fashion 00111=G НІ Η RA DI ΑL statement (2 wds.) 2nd 01000 = HNCT URI STS \mathbf{E} ACU Needling people? 2nd 10100 = THIL OSO HIZING Emulating Plato or Socrates 1st Silicon Segments AC **ACU** BE CT $\frac{AL}{}$ AQ AR**ECU** ETDI **END** ETI **EMA** \mathbf{ER} **EVE FED GET** Ш HIZ ING HHLLAR LT NCT NE NWIME MOL OL ORY OS OSO OUR RAREREREO RH**RMU** ROSC SEL

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