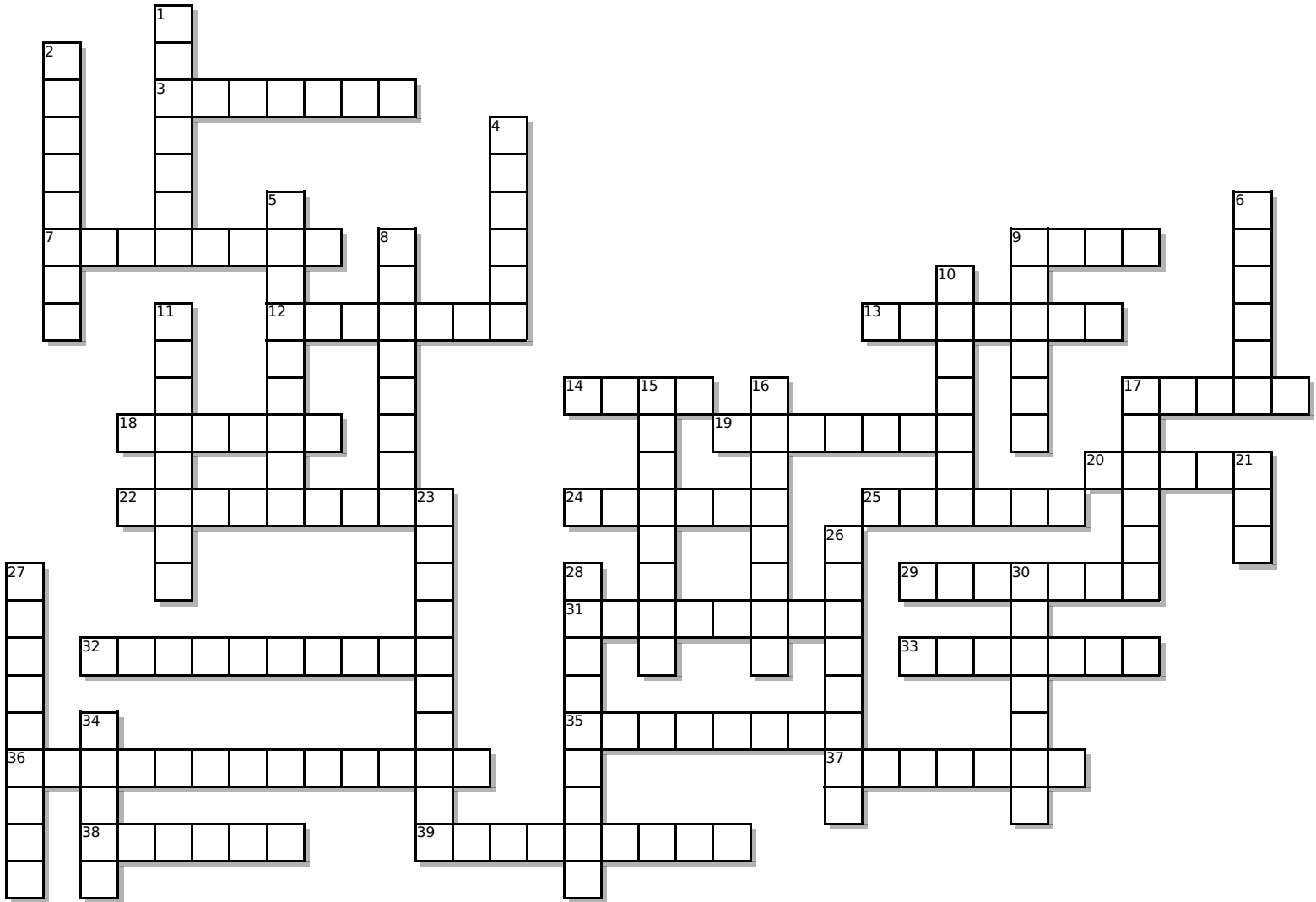


Nuclear Technology



ACROSS

- 3 The element which is used to make control rods in Canada's nuclear power plant.
- 7 The type of change involved when steam in the breath condenses on a cold window.
- 9 The type of particle which is just an electron.
- 12 One nucleus breaks apart into two smaller ones.
- 13 The fuel used in Canada's nuclear power plant.
- 14 He suggested that electrons travel in energy levels, and that electrons influence the behavior of atoms.
- 17 A term used to describe the fact that the nucleus is very small but contains most of the mass of an atom.
- 18 The type of bomb dropped on Hiroshima and Nagasaki.
- 19 He worked with cathode ray tubes and postulated the existence of electrons.
- 20 The type of particle which contains two protons and two neutrons.
- 22 The area in a thermal power plant where steam is condensed into water.
- 24 A horizontal row on the periodic table.
- 25 Asked, "What is the nature of matter?"
- 29 Your teacher's name
- 31 The type of change involved when fuel burns in a combustion engine.
- 32 A work often used to describe the mass of an electron.
- 33 The toxic element released into water when hydroelectric dams are built.
- 35 The charge of an electron.
- 36 A word used to describe a nuclear change.
- 37 The charge of a neutron.

- 38 All elements to the left of the staircase on the periodic table.
- 39 The hydrogen isotope found in heavy water.

DOWN

- 1 Contains protons and neutrons.
- 2 A term used to describe atoms of an element which have different masses.
- 4 Two small nuclei combine to make one larger one.
- 5 The amount of time it takes for half of the atoms in a radioactive sample to decay.
- 6 A kind of radiation which is not produced by radioactive elements.
- 8 The charge of a proton.
- 9 The area in a thermal power plant where water is turned into steam.
- 10 The electrons in the outermost energy level.
- 11 Help to hold the nucleus together.
- 15 The type of bomb that uses fusion.
- 16 The man who first suggested the existence of neutrons.
- 17 During the time of the Industrial Revolution, he theorized the presence of atoms.
- 21 What is found in most of an atom.
- 23 He was the first person to suggest the existence of protons.
- 26 The second last vertical column on the periodic table.
- 27 All elements to the right of the staircase on the periodic table.
- 28 The last horizontal row on the periodic table.
- 30 The type of change involved when a new element is produced.
- 34 The most penetrating type of radiation.

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