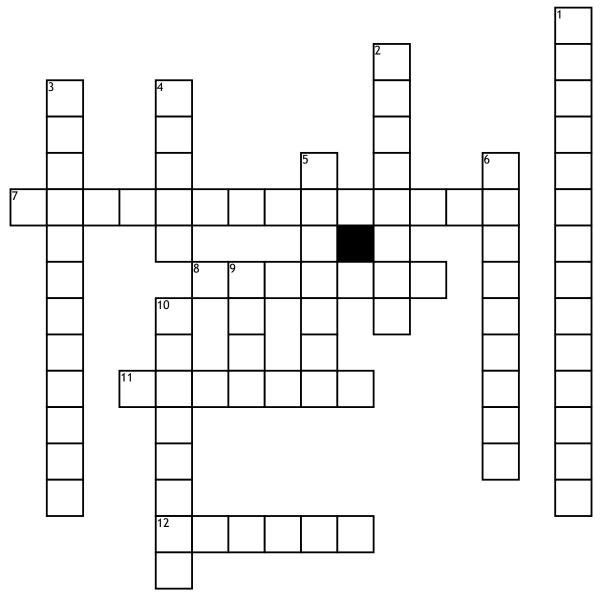
Name:	Date:
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Nuclear



Across

- 7. Highly-energetic, short-wave electromagnetic radiation emitted from the nucleus of an atom.
- **8.** an X-ray image made using computerized axial tomography.
- 11. Chemical base material which cannot be chemically converted into simpler substances.
- **12.** Formation of a heavy nucleus from lighter nuclei releasing energy the binding energy.

Down

- 1. Positively charged particle emitted by various radioactive materials during decay. It consists of two neutrons and two protons
- **2.** Non-flammable gas, e.g. CO2, nitrogen, noble gases.
- **3.** Electron with positive or negative charge emitted by a nucleus or elementary particle during beta decay or produced by a nuclear reaction
- **4.** The spontaneous conversion of a nuclide into another nuclide or into another energy state of the same nuclide.

- **5.** Fission of an atomic nucleus into two parts of the same size caused by the collision of a particle.
- **6.** Element or compound made radioactive for easy tracing in biological, chemical and industrial processes.
- **9.** Smallest particle of an element which cannot be chemically divided any further.
- **10.** The period during which half of the nuclei decay in a quantity of radionuclides.