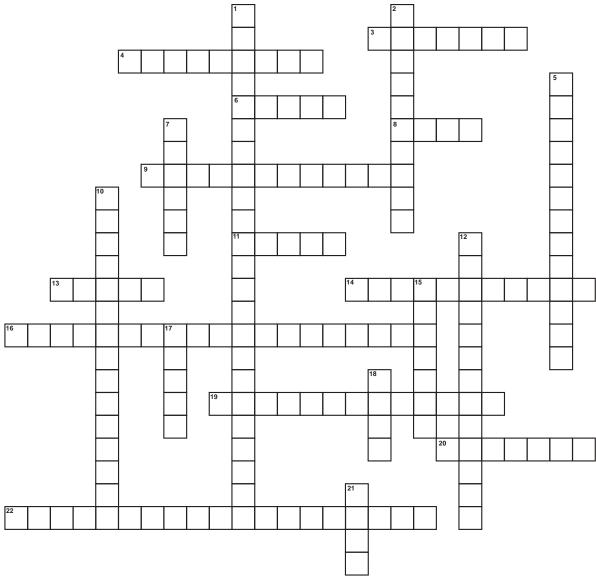
## ATOMIC CROSSWORD



3. Splitting of atoms into smaller pieces

**ACROSS** 

- 4. Owners of nuclear power plants must have \_\_\_\_ plans to practice how workers and residents handle this
- The Low-Level Radioactive Waste Policy Act passed by the U.S. Congress in 1980 requires each \_\_\_\_\_ to provide for disposal of the low-level waste produced within its borders
- Heavily shielded container used to store and/or ship radioactive materials
- Removes excess heat from the reactor's circulating water system
- The decrease in the amount of radioactive material with the passage of time
- Penetrating rays that are best stopped or shielded by dense material
- 14. Reactor physics term describing the state when the number of neutrons released by fission is exactly balanced by the neutrons being absorbed by the fuel and poisons and escaping the reactor core
- A reactor in which water, used as both coolant and moderator, is allowed to boil in the core
- 19. A radiation detection and measuring instrument
- An uncharged elementary particle with a mass slightly greater than that of the proton, and found in the nucleus of every atom heavier than hydrogen
- Comes from cosmic sources; naturally occurring radioactive materials, and global fallout as it exists in the environment from the testing of nuclear explosive devices

## **DOWN**

- Reactor that keeps water under pressure so that it heats, but does not boil
- 2. One millionth of a curie
- 5. Proposed high-level waste disposal site in Nevada
- An elementary nuclear particle with a positive electric charge located in the nucleus of an atom
- 10. Shutting down a plant and reducing the level of radiation so that the land can be used for other purposes
- Energy liberated by a nuclear reaction (fission or fusion) or by radioactive decay
- A rotary engine made with a series of curved vanes on a rotating shaft, usually turned by water or steam
- 17. One of the main concerns about nuclear powerplants is what to do with the \_\_\_\_\_
- 18. Spent fuel that is stored inside a nuclear power plant goes in this
- The smallest particle of an element that cannot be divided or broken up by chemical means