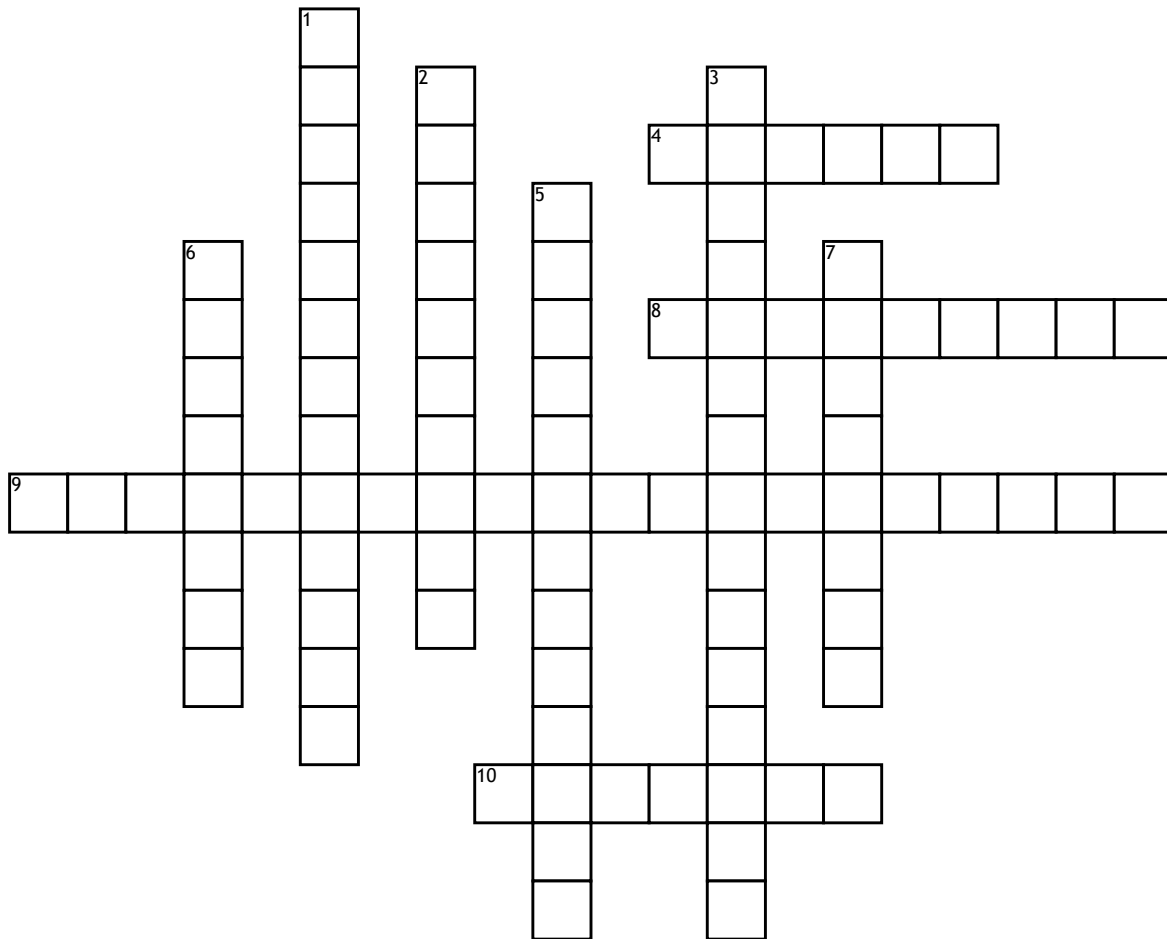


Name: _____

Date: _____

Radioactivity Crossword



Across

4. the process or result of joining two or more things together to form a single entity.
 8. a type of radioactive decay in which a beta particle (fast energetic electron or positron) is emitted from an atomic nucleus, transforming the original nuclide to an isobar.
 9. occurs when one single nuclear reaction causes an average of one or more subsequent nuclear reactions
 10. a radioactive decay process is also known as nuclear fission.

Down

1. the action of changing or the state of being changed into another form.

2. is a type of radioactive decay in which an atomic nucleus emits an alpha particle transforms or 'decays' into a different atomic nucleus, with a mass number that is reduced by four and an atomic number that is reduced by two.
 3. the process in which two nuclei, or else a nucleus of an atom and a subatomic particle collide to produce one or more nuclides that are different from the nuclide(s) that began the process.
 5. the emission of ionizing radiation or particles caused by the spontaneous disintegration of atomic nuclei.
 6. is the time required for a quantity to reduce to half of its initial value.
 7. penetrating electromagnetic radiation of a kind arising from the radioactive decay of atomic nuclei.