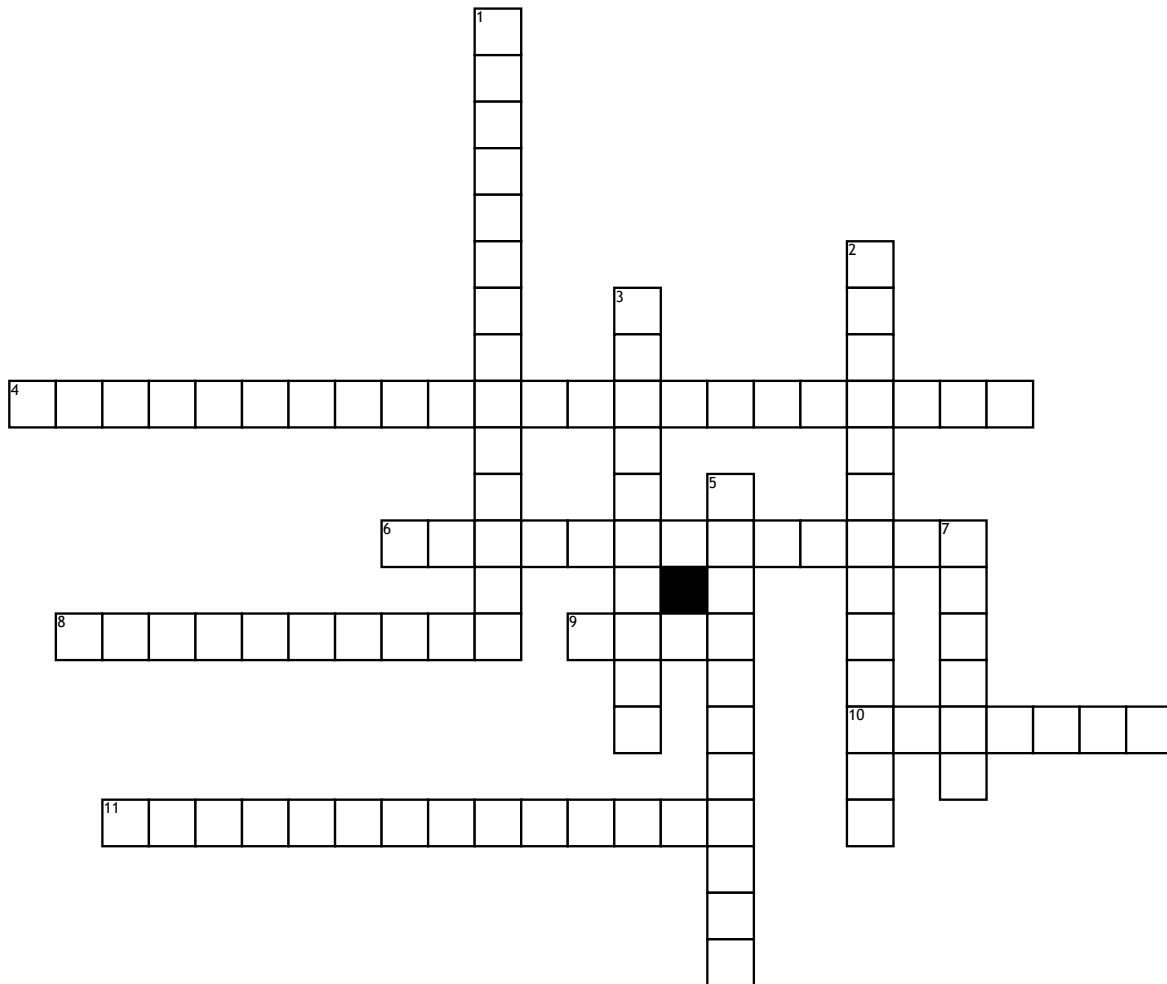


Name: _____

Date: _____

Vocab 1



Across

4. one of four quantum numbers which are assigned to all electrons in an atom to describe that electron's state.
6. system of electrons surrounding the nucleus of an atom
8. Known for the formulation of an atomic theory
9. Proposed that Electrons should move around the nucleus but only in prescribed orbits. When jumping from one orbit to another with lower energy, a light quantum is emitted.
10. performed a series of experiments in 1897 designed to study the nature of electric discharge in a high-vacuum cathode-ray tube
11. beam of electrons emitted from the cathode of a high-vacuum tube.

Down

1. a number that occurs in the theoretical expression for the value of some quantized property of a subatomic particle, atom, or molecule and can only have certain integral or half-integral values
2. regions of space around the nucleus of an atom where an electron is likely to be found
3. he was the first to discover that atoms have a small charged nucleus surrounded by largely empty space, and are circled by tiny electrons
5. the fixed amount of energy that a system described by quantum mechanics, such as a molecule, atom, electron, or nucleus, can have
7. introduced the atomic theory