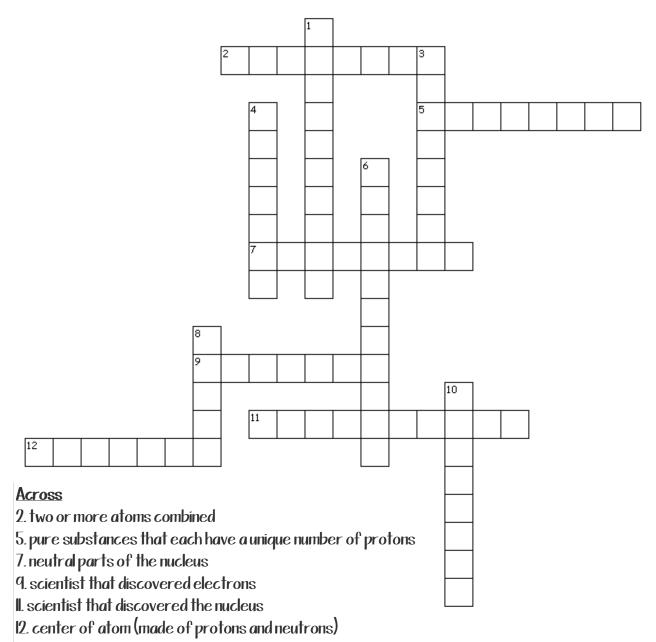
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Intervention 8.1.1 Atoms & Molecules

Use the clues about atoms and molecules below to fill in the crossword puzzle.



Down

- I. first scientist to introduce the idea of an atom
- 3. negative part of the atom that orbits the nucleus
- 4. positive parts of the nucleus
- 6. first scientist who developed the electron cloud model
- 8. smallest unit of matter that has its own identity (building blocks of matter)
- 10. substance made of more than one element

Read the passage about atoms and answer the following questions:

I. Atoms are one of the smallest units of	
2. Protons, neutrons, and electrons areparticles.	
3. Neutrons and protons are located in the atom's	
4. Electrons are very smalllocated outside the nucleus.	
5. Each type of subatomic particle has a different electrical	
6. The piece of the atom that has an electrical charge of -lis	
7. The subatomic particle that has no electrical charge is the	
8. Hydrogen, helium, sodium and chlorine are examples of elements.	
9. Each chemical element consists of only one type of	
10. All atoms with the same number of in the atomic nucleus are the sa	me element.
II. Another name for atomic weight is atomic	
12. The only atom that does not contain a neutron is a atom.	
13. If we want to know how many electrons and protons an element has, we can look at the	Table.
I4. The chemical element with 109 protons is	
15. The six major in the living things are carbon, hydrogen, nitrogen, oxygsulfur.	gen, phosphorous, and
Fill in the diagram of an atom to	<u>electron</u>
the right using the word bank provided.	NUCLEUS NEUTRON ORLITALS