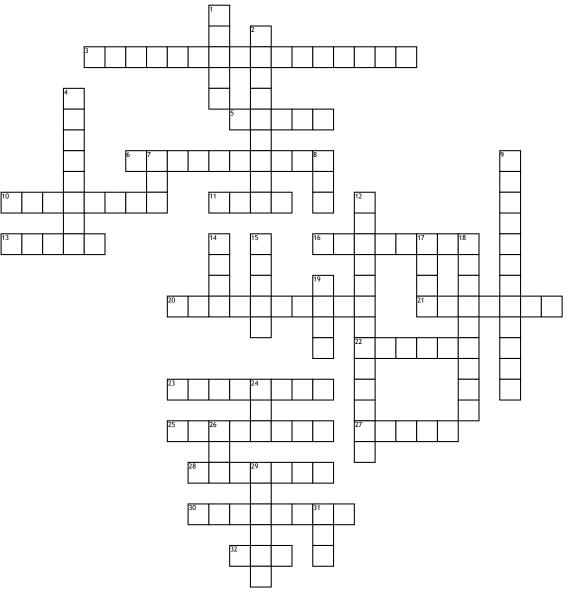
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## Atomic structures



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- 3. These metals form multivalent ions.
- 5. The rare earth metals are found in row
- **6.** The chemical family name for group VIII elements are called the \_\_\_\_\_.
- **10.** Sodium loses one electron to form a cation with a \_\_\_\_\_ one charge.
- 11. Metals \_\_\_\_\_\_ electron(s) to achieve the sane electron arrangement as the closest noble gas.
- 13. The alkaline earth metals react with water to form
- **16.** The name of an ion with two oxygen atoms joiened together with a 2- charged is called
- 20. Ernest \_\_\_\_\_\_ discovered fhe nucleus of the atom
- of the atom.

  21. Protons and neutrons are found in the \_\_\_\_\_
- of an atom.

  22. This metal is used in telecommunication because it is a good conductkr of electricit.

- 23. Electron carries a \_\_\_\_\_ charge
- **25.** Elements that have the same number of protons but different mass numbers are called
- 27. Gilbert Lewis explains chemical bonding using a model known as the \_\_\_\_\_ dot or structures diagram.
- **28.** This liquid metal, \_\_\_\_\_\_, was used in thermometer.
- **30.** As molecule consisting of two atoms joined together in a single unit is called \_\_\_\_\_\_.
- **32.** A charged ion is called \_\_\_\_\_.
- <u>Down</u>
- 1. The chemical formula for \_\_\_\_\_ is H2C
- 2. \_\_\_\_\_ gain electrons to form anions.
- 4. The most reactive nonmetals in group VII is
- 7. All halogen gain \_\_\_\_\_\_ electron(s) to form ions with -1 charge.
- 8. There are \_\_\_\_\_ energy levels in an atom of astatine.

- **9.** Boht found that electrons occupied certain allowed orbits called \_\_\_\_\_\_.
- **12.** Dmitri Mendeleev is famous for arranging 64 known elements in an organized table called the
- 14. Table \_\_\_\_\_ is called sodium chloride.
- 15. All elements, with the exception of noble gases, gain, lose or shared electron(s) to obtain a full valence shells of eight electrons. This is known as the \_\_\_\_\_ rule.
- 17. This element is used to mske steel and has 26 protons is called \_\_\_\_\_\_.
- **18.** J J \_\_\_\_\_\_ discovered the \_\_\_\_\_
- 19. Modt metals are gray or silver in coloured, except for copper and \_\_\_\_\_\_.
- 24. The maximum # of electrons allowed in the firsg energy level is \_\_\_\_\_.
- **26.** The number of valence(s) for alkali metals is/are \_\_\_\_\_.
- 29. A positively charged is called \_\_\_\_\_\_.
- **31.** Nonmetal ions have the ending "\_\_\_\_\_" in their names.