

# Answers to the gizmo exploration element builder

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**What causes the element name to change gizmo?** What causes the element name to change? The protons cause the element name to change.

**Why do you think the elements are arranged the way that they are gizmo answer key?** The chemical elements are arranged this way because: they are grouped based on their atomic number (number of protons), for easy identification and predicting their ability to bond with other elements.

**Which number is equal to the number of protons in the atom gizmo answer key?** Final answer: The atomic number, which equals the number of protons, identifies an element and indicates the number of electrons in a neutral atom. The number of neutrons can be found by subtracting the atomic number from the mass number.

**What are the stable isotopes of nitrogen gizmo answer key?** What are the stable isotopes of nitrogen? nitrogen-15, carbon-14, nitrogen-14.

**What causes element names to change?** The name of an element changes when its atomic number changes. This can occur naturally through radioactive decay or artificially through a process known as transmutation, where changes are made in the number of protons in an atom's nucleus.

**What elements make up a pizza?** If you're wondering how to make pizza, it's actually fairly simple. Pizza has three main elements: crust, sauce, and toppings.

**What are the two DNA components shown in the Gizmo answer key?** What are the two DNA components shown in the Gizmo? Nucleosides and Phosphates 2. A nucleoside has two parts: a pentagonal sugar (deoxyribose) and a nitrogenous base (in color).

**How did he arrange the element?** In 1869, Mendeleev published the first periodic table of the elements. In his periodic table, Mendeleev arranged elements in rows by increasing atomic mass. Within a row, elements with lower atomic masses were on the left. Mendeleev started a new row every time the chemical properties of the elements repeated.

**What does the number next to the element name indicate gizmo?** B. What does the number next to the element name indicate? name indicates the mass number.

**Why do you think the elements are arranged the way that they are?** Answer and Explanation: The periodic table of elements is arranged the way it is by showcasing features that elements have in common with each other. From left to right, the elements increase in atomic number and mass.

**Which element has similar properties to lithium gizmo?** Sodium and potassium are elements that have similar properties to lithium since they belong to the same alkali metal group in the periodic table.

**What particle has a positive charge?** The proton is a subatomic particle with a positive electrical charge. They are found in every atomic nucleus of every element.

**Why do you think the elements are arranged the way that they are gizmo?** Why do you think the elements are arranged the way that they are? To provide information about the different elements easily and help in predicting how different elements may react with one another. 2. Draw diagrams: Create an electron dot diagram for each of the elements below.

**How many electrons are in a  $Mg^{2+}$  gizmo?** Answer and Explanation: There are 10 electrons in a Mg ion. A neutral atom of magnesium would have 12 electrons to balance out the positive charge of the 12 protons found in an atom of magnesium.

**How many electrons can fit in the first energy level?** Regardless of its shape, each orbital can hold a maximum of two electrons. Energy level I has just one orbital, so two electrons will fill this energy level.

**What element was named by a child?** Neon was discovered by the Scottish scientist Sir William Ramsay, who also discovered all of the other elements in group 18 of the periodic table (bar the recently discovered element 118). He discovered neon in 1898, and decided to use as the element's name the suggestion of his 13 year old son, 'novum'.

**What substance makes up a pizza?** Explanation: A pizza is made up of various substances that correspond to different ingredients. For example, those ingredients can include flour, water, yeast, salt (all for the dough), tomatoes, cheese, and potentially many other toppings.

**What substance makes up water?** A water molecule has three atoms: two hydrogen (H) atoms and one oxygen (O) atom. That's why water is sometimes referred to as H<sub>2</sub>O. A single drop of water contains billions of water molecules.

**What make a pizza a pizza?** In order for something to be called a pizza, it must have dough, tomato sauce and cheese. And if you swap out one of those ingredients, then you better start calling it “pizza-like” or the logophiles, purists and true pizza lovers of this world will come knocking at your door.

**What is inside pizza?** pizza, dish of Italian origin consisting of a flattened disk of bread dough topped with some combination of olive oil, oregano, tomato, olives, mozzarella or other cheese, and many other ingredients, baked quickly—usually, in a commercial setting, using a wood-fired oven heated to a very high temperature—and served hot ...

**Is pepperoni pizza a element?** Pepperoni pizza is a heterogeneous mixture. Therefore, option C is correct. A heterogeneous mixture is a type of mixture that consists of visibly different substances or phases that are not uniformly distributed.

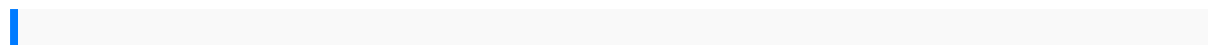
**What causes an element to change to a different element?** Adding or removing protons from the nucleus changes the charge of the nucleus and changes that atom's atomic number. So, adding or removing protons from the nucleus changes

what element that atom is!

**What determines the identity name of an element?** The number of protons in an atom determines its elemental identity. NO TWO ELEMENTS HAVE THE SAME NUMBER OF PROTONS IN THEIR ATOMS. The number of protons in an atom is called the ATOMIC NUMBER of the element. Each element therefore has a unique atomic number.

**What causes the name for the molecular structure to be different from the name for the arrangement of electron pairs?** What causes the name for the molecular structure to be different from the name for the arrangement of electron pairs? The name for the molecular structure is different from that of the electron pairs when there are lone pairs around the central atom.

**What causes an element to change mass without changing its name?** The difference in neutron number changes the mass number of the element and makes different isotopes of the same element. A change in neutron number does not change the identity of the atom that is the element does not change. The atom becomes an isotope of the same element.



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