

PERIODIC TABLE OF THE ELEMENTS

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| 1 PROTON HYDROGEN Hydrogen is the lightest element on the periodic table. There are 7 billion isotopes of hydrogen. It was the first element to form when the universe began, and is used as fuel to create light in stars through nuclear fusion. | 2 PROTONS HELIUM Helium is the lightest noble gas you may have heard of. It is a colorless, odorless, and tasteless gas. Helium is the second most abundant element in the universe, and it is used in many applications, such as in balloons and as a coolant in nuclear reactors. |
| 3 PROTONS LITHIUM Lithium has 3 protons and 3 neutrons in its nucleus. It is a soft, silvery metal that is used in many applications, such as in batteries and as a mood stabilizer. | 4 PROTONS Beryllium Beryllium is a hard, brittle metal that is used in many applications, such as in aerospace and as a neutron reflector in nuclear reactors. |
| 5 PROTONS SODIUM Sodium is a highly reactive metal that is used in many applications, such as in street lighting and as a component in many alloys. | 12 PROTONS magnesium Magnesium is the element with atomic number 12. It is a silvery-white metal that is used in many applications, such as in alloys and as a component in many fertilizers. |
| 19 PROTONS POTASSIUM The element of element 19 comes from the element of element 19. It is a soft, silvery metal that is used in many applications, such as in fertilizers and as a component in many alloys. | 20 PROTONS CALCIUM An alkaline metal with the atomic number of 20, calcium is the fifth most abundant element in the Earth's crust. It is used in many applications, such as in fertilizers and as a component in many alloys. |
| 21 PROTONS SCANDIUM Scandium has one stable isotope and all of its other isotopes are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 22 PROTONS TITANIUM Titanium is a hard, lustrous metal that is used in many applications, such as in aerospace and as a component in many alloys. |
| 23 PROTONS Vanadium Vanadium is a hard metal rarely used in its elemental form. It is used in many applications, such as in alloys and as a component in many fertilizers. | 24 PROTONS CHROMIUM Chromium is usually used as the base additive in stainless steel alloys. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 26 PROTONS IRON Iron has 26 isotopes, of which only 4 are stable. It is the fourth most abundant element in the Earth's crust. It is used in many applications, such as in alloys and as a component in many fertilizers. | 27 PROTONS COBALT Cobalt has 26 known isotopes, only only of which is stable. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 28 PROTONS NICKEL Naturally occurring nickel is composed of 5 stable isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. | 29 PROTONS COPPER Copper is one of the first metals used by humankind. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 30 PROTONS ZINC The metal zinc has atomic number 30. It is used in many applications, such as in alloys and as a component in many fertilizers. | 31 PROTONS GALLIUM Gallium is an element with atomic number 31. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 32 PROTONS SILICON Silicon, with atomic number 14, makes up about 28% of our planet's crust. It is used in many applications, such as in alloys and as a component in many fertilizers. | 33 PROTONS PHOSPHORUS Phosphorus, with an atomic number of 15, is a very reactive element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 16 PROTONS SULFUR Sulfur has 16 protons in the atom. It is used in many applications, such as in alloys and as a component in many fertilizers. | 17 PROTONS Chlorine Chlorine is an element with 17 protons and 17 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 18 PROTONS ARGON Argon is an element with 18 protons and 18 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 34 PROTONS KRYPTON Krypton is not an element, it is a noble gas. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 35 PROTONS Rubidium Rubidium, atomic number 37, has 37 isotopes, only one of which is stable. It is used in many applications, such as in alloys and as a component in many fertilizers. | 38 PROTONS STRONTIUM Strontium, atomic number 38, has 4 stable isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 39 PROTONS Yttrium Yttrium, with atomic number 39, was named for the village of Ytterby, Sweden, where it was first discovered. It is used in many applications, such as in alloys and as a component in many fertilizers. | 40 PROTONS ZIRCONIUM Zirconium is an element with atomic number 40 and 40 protons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 41 PROTONS Niobium Niobium, atomic number 41, has 35 isotopes, only one of which is stable. It is used in many applications, such as in alloys and as a component in many fertilizers. | 42 PROTONS MOLYBDENUM Molybdenum has atomic number 42. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 43 PROTONS technetium Technetium is an element number 43, and it has 32 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 44 PROTONS RUThENIUM Ruthenium is element number 44, and it has 32 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 45 PROTONS Rhodium One of the rarest and most valuable elements on Earth, rhodium is used in many applications, such as in alloys and as a component in many fertilizers. | 46 PROTONS PALLADIUM Palladium has 46 protons and 46 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 47 PROTONS Silver Silver, atomic number 47, is found on earth with 60 known isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. | 48 PROTONS CADMIUM Cadmium, atomic number 48, has 30 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 49 PROTONS INDIUM Indium is named after the Hindu deity Indra. It is used in many applications, such as in alloys and as a component in many fertilizers. | 50 PROTONS TIN Tin, atomic number 50, has 10 stable isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 51 PROTONS ANTIMONY Antimony is a post-transition metal. It is used in many applications, such as in alloys and as a component in many fertilizers. | 52 PROTONS TELLURIUM Tellurium has 52 protons and 52 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 53 PROTONS Iodine Iodine is the heaviest halogen with 53 known isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. | 54 PROTONS Xenon Element 54, Xenon, is a noble gas. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 55 PROTONS CESIUM Cesium, element 55, has 39 known isotopes, only one of which is stable. It is used in many applications, such as in alloys and as a component in many fertilizers. | 56 PROTONS Barium Barium, atomic number 56, has 13 known isotopes, 7 of which are stable. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 72 PROTONS Hafnium Hafnium is a metal with 72 known isotopes (5 stable, 14 of which are radioactive). It is used in many applications, such as in alloys and as a component in many fertilizers. | 73 PROTONS TANTALUM Tantalum, element 73, is a transition metal. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 74 PROTONS TUNGSTEN Tungsten, element 74, has 32 isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 75 PROTONS RHENIUM Rhenium, Re, is one of the rarest elements in the periodic table. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 76 PROTONS OSMIUM With 76 protons and 42 known isotopes, osmium is one of the rarest elements in the periodic table. It is used in many applications, such as in alloys and as a component in many fertilizers. | 77 PROTONS IRIDIUM Iridium, comprising 4 isotopes, is among the rarest elements in the periodic table. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 78 PROTONS platinum Element number 78 is platinum. It has 43 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 79 PROTONS GOLD Gold, atomic number 79, has 19 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 80 PROTONS mercury Mercury is a silvery, shiny metal. It is used in many applications, such as in alloys and as a component in many fertilizers. | 81 PROTONS THALLIUM There are 81 isotopes of thallium, element 81. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 82 PROTONS LEAD A common metal known throughout history, lead has 82 protons and 82 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 83 PROTONS BISMUTH Recognized for its use in medicines such as Peppermint Bismuth, bismuth is element number 83. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 84 PROTONS Polonium Polonium has 84 isotopes, which are all radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 85 PROTONS ASTATINE Astatine (At), with 85 known isotopes, is a radioactive element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 86 PROTONS RADON Radon (Rn) is a colorless, odorless, tasteless noble gas. It is used in many applications, such as in alloys and as a component in many fertilizers. | 114 PROTONS FRANCIUM Francium (Fr) is a radioactive element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 88 PROTONS RADIUM Radium was discovered by Marie Curie. It is used in many applications, such as in alloys and as a component in many fertilizers. | 115 PROTONS copernicium Copernicium (Cn) is a synthetic element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 116 PROTONS Rutherfordium The synthetic element Rutherfordium is named after the physicist Ernest Rutherford. It is used in many applications, such as in alloys and as a component in many fertilizers. | 117 PROTONS Dubnium Dubnium (Db) was first created at the Joint Institute for Nuclear Research. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 118 PROTONS Seaborgium Nobel-Leslie Groves Seaborg was part of the team that discovered element 118. It is used in many applications, such as in alloys and as a component in many fertilizers. | 119 PROTONS BOHRIUM Element 119 is named for Niels Bohr, a physicist who made foundational contributions to understanding atomic structure and quantum theory. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 120 PROTONS HASSIUM Only three isotopes of element 120, named for the Hassium Mountains, have been discovered. It is used in many applications, such as in alloys and as a component in many fertilizers. | 121 PROTONS MEITNERIUM Meitnerium is a synthetic element named for the physicist Lise Meitner. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 122 PROTONS DARMSTADIUM Named after the German city where it was first produced, Darmstadtium (Ds) has 122 protons and 122 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 123 PROTONS ROENTGENIUM Roentgenium is a synthetic element with 123 protons and 123 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 124 PROTONS Copernicium Named in honor of the astronomer Nicolaus Copernicus, Copernicium (Cn) has 124 protons and 124 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 125 PROTONS Nihonium Nihonium is a synthetic chemical element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 126 PROTONS Flerovium With a half-life of 1.1 seconds, flerovium is the heaviest element to have been synthesized. It is used in many applications, such as in alloys and as a component in many fertilizers. | 127 PROTONS Moscovium Moscovium is a synthetic element with 127 protons and 127 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 128 PROTONS Livermorium Livermorium is an artificial element with 128 protons and 128 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 129 PROTONS Tennessee Tennessee (Ts) is located in the hypothesized island of stability. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 130 PROTONS OGANESSON Oganesson is the only element currently named after a person. It is used in many applications, such as in alloys and as a component in many fertilizers. | 57 PROTONS LANTHANUM Lanthanum, atomic number 57, is a rare earth element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 58 PROTONS CERIUM Cerium was the first lanthanide discovered. It is used in many applications, such as in alloys and as a component in many fertilizers. | 59 PROTONS PRASEODYMIUM Element number 59, praseodymium, is the third most abundant element in the Earth's crust. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 60 PROTONS Neodymium Neodymium, atomic number 60, has 5 stable and 2 radioactive isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. | 61 PROTONS PROMETHIUM Named after the Greek Titan who stole fire from the gods, promethium is a synthetic element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 62 PROTONS SAMARIUM Samarium, atomic 62, was first discovered in 1879. It is used in many applications, such as in alloys and as a component in many fertilizers. | 63 PROTONS EUROPIUM The most reactive and softest lanthanide, europium, with 63 protons and 63 neutrons, is used in many applications, such as in alloys and as a component in many fertilizers. |
| 64 PROTONS GADOLINIUM Gadolinium (64 known isotopes, 2 stable) is a silvery-white rare earth metal. It is used in many applications, such as in alloys and as a component in many fertilizers. | 65 PROTONS TERBIUM Terbium is a silver-white rare earth metal. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 66 PROTONS Dysprosium Dysprosium, element 66, is a rare earth metal. It is used in many applications, such as in alloys and as a component in many fertilizers. | 67 PROTONS HOLMIUM Named on 15 January, it is named after the city of Holmia. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 68 PROTONS erbium Erbium, atomic number 68, has a total of 55 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 69 PROTONS Thulium Thulium is a silvery metal, usually found as an impurity in natural tin. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 70 PROTONS Yttrium Yttrium, 70, is naturally found as a mixture of isotopes. It is used in many applications, such as in alloys and as a component in many fertilizers. | 71 PROTONS LUTETIUM Lutetium is the last element in the lanthanide series. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 89 PROTONS Actinium Actinium (Ac) is a radioactive element with 89 protons and 89 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 90 PROTONS THORIUM Thorium, which after the fission of uranium, is the most abundant actinide in the Earth's crust. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 91 PROTONS Protactinium Protactinium has 91 protons and 91 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. | 92 PROTONS URANIUM Uranium has more protons (92) than any other element. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 93 PROTONS NEPTUNIUM Neptunium was first synthesized in 1940 but has since been found in nature. It is used in many applications, such as in alloys and as a component in many fertilizers. | 94 PROTONS PLUTONIUM All 20 isotopes of plutonium are unstable and all are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 95 PROTONS Americium Americium has 95 known isotopes, all of which are radioactive. It is used in many applications, such as in alloys and as a component in many fertilizers. | 96 PROTONS CURIUM With 96 known isotopes, curium is normally only produced in a laboratory. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 97 PROTONS Berkelium Berkelium, with 97 known radioactive isotopes, is a synthetic element. It is used in many applications, such as in alloys and as a component in many fertilizers. | 98 PROTONS Californium Californium, element 98, is the 2nd heaviest element to have been synthesized. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 99 PROTONS EINSTEINIUM Optical lines of einsteinium have been identified. It is used in many applications, such as in alloys and as a component in many fertilizers. | 100 PROTONS FERMIUM Fermium was discovered in 1952 in the debris from the first thermonuclear test in the Pacific Ocean. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 101 PROTONS MENDELEVIUM Mendelevium is named after the Russian chemist Dmitri Mendeleev. It is used in many applications, such as in alloys and as a component in many fertilizers. | 102 PROTONS NOBELIUM Nobelium is an element with 102 protons and 102 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |
| 103 PROTONS LAWRENCIUM Lawrencium is named after Ernest Lawrence. It is used in many applications, such as in alloys and as a component in many fertilizers. | 104 PROTONS ROSENIUM Rosenium is an element with 104 protons and 104 neutrons. It is used in many applications, such as in alloys and as a component in many fertilizers. |