

BRAINPOP PERIODIC TABLE OF ELEMENTS QUIZ ANSWERS

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What characteristics are shared by all alkali metals and alkaline earth metals?

What characteristics are shared by all alkali metals and alkaline earth metals brain pop? Alkali metals and alkaline earth metals share several characteristics: They react with water to form alkaline solutions. Alkali metals like sodium and potassium are highly reactive and can vigorously react with water, releasing hydrogen gas and forming alkaline solutions. They are shiny and have a metallic appearance.

What can you infer about the properties of carbon? So, by observing all these properties we can conclude that carbon is non-metal because carbon is non-lustrous, non-malleable, and non-ductile in nature.

What two types of particles exist within an atomic nucleus brainpop? The nucleus contains PROTONS AND NEUTRONS.

Are alkaline earth metals more reactive in acid or water? Yes, most alkaline earth metals are typically highly reactive with water, though their reactivity is generally less than that of alkali metals.

Why are magnesium and calcium kept in the same group of the periodic table? As the table shows, magnesium and calcium have the same number of electrons (two) in the outermost shell. Those three elements belong to the second group of the modern periodic table and are called alkaline earth metals.

What is the common characteristic shared by all alkali metals regarding their valence electrons? Each alkali metal atom has a single electron in its outermost shell. This valence electron is much more weakly bound than those in inner shells. As a result, the alkali metals tend to form singly charged positive ions (cations) when they react with nonmetals.

What are the poor metals? "Poor metals" is not a rigorous IUPAC-approved nomenclature, but the grouping is generally taken to include aluminium, gallium, indium, tin, thallium, lead, and bismuth. Occasionally germanium, antimony, and polonium are also included, although these are usually considered to be metalloids or "semi-metals".

Do alkali metals react with water? Alkali metals react with water to produce heat, hydrogen gas, and the corresponding metal hydroxide. The heat produced by this reaction may ignite the hydrogen or the metal itself, resulting in a fire or an explosion. The heavier alkali metals will react more violently with water.

What do alkali metals and earth metals have in common? The atoms of the alkaline-earth elements all have similar electronic structures, consisting of a pair of electrons (designated s electrons) in an outermost orbital, within which is a stable electronic configuration corresponding to that of a noble gas.

What important characteristic do the alkali metals and alkaline earth metals have in common? Expert-Verified Answer. Answer: Alkali metals and alkaline earth metals both have chemical reactivity to air and water.

What is a defining characteristic of alkali and alkaline earth metals? The alkali metal ions have the lowest polarising power as their charge/radius ratio is very low, whereas the alkaline earth metal ions have high polarising power as it forms bivalent ions and the charge/radius ratio is higher than the alkali metals.

What are the characteristics of alkali shared with other metals? The alkali metals have the high thermal and electrical conductivity, lustre, ductility, and malleability that are characteristic of metals. Each alkali metal atom has a single electron in its outermost shell.

What is the 24 Gauss's law? Gauss's law makes it possible to find the electric field easily in highly symmetric situations. The idea is to draw a closed surface like a balloon around any charge distribution, then some field line will exit through the surface and some will enter or reenter.

Which spherical Gaussian surface has a larger total electric flux? Which spherical Gaussian surface has the larger electric flux? Flux depends only on the enclosed charge, not the radius.

Who is the proponent of electric flux? The proponent of the electric flux is Marshall McLuhan, influenced by Wyndham Lewis, both seeking stillness within the chaos of electric media through the concept of the vortex.

What is Gauss law answer? Gauss's law for electricity states that the electric flux Φ across any closed surface is proportional to the net electric charge q enclosed by the surface; that is, $\Phi = q/\epsilon_0$, where ϵ_0 is the electric permittivity of free space and has a value of 8.854×10^{-12} square coulombs per newton per square metre.

What is the Gauss formula? The equation of Gauss law is $\Phi = Q/\epsilon_0$. Where Φ is the flux, Q is the charge, and ϵ_0 is the permittivity. Total electric flux out of a closed surface is equal to the charge enclosed divided by the material's permittivity.

How to prove Gauss law? Proof of Gauss's Theorem Let's say the charge is equal to q . Let's make a Gaussian sphere with radius $= r$. As per the Gauss law, the total flux associated with a sealed surface equals $1/\epsilon_0$ times the charge encompassed by the closed surface.

Does electric flux depend on size of Gaussian surface? A closed surface The electric flux depends on only the charge enclosed, regardless of the geometry of your Gaussian surface.

What is the formula for the total electric flux through the Gaussian surface? The flux Φ of the electric field E through any closed surface S (a Gaussian surface) is equal to the net charge enclosed (q_{enc}) divided by the permittivity of free space (ϵ_0): $\Phi = \oint_S E \cdot dA = q_{\text{enc}}/\epsilon_0$.

What is the total electric flux coming out of a Gaussian surface? If you have heard of Gauss' law, you will know that the flux coming out of a surface is proportional to the total charge enclosed by the surface. In your case, the total charge enclosed is zero, because the dipole has equal and opposite charges. So the total flux coming out of the surface is 0.

What does Gauss's law give you? Gauss's law makes it possible to find the distribution of electric charge: The charge in any given region of the conductor can be deduced by integrating the electric field to find the flux through a small box whose sides are perpendicular to the conductor's surface and by noting that the electric field is perpendicular ...

What is \mathbf{e} in Gauss law? \mathbf{E} is just the electric field, no more, no less. It is a quantity (a vector) that is defined at every point in space, and Gauss' Law says that its integral over a closed surface is proportional to the charge enclosed by that surface.

What is Lambda Gauss law? From Gauss's law, the electric field due to a uniform line of charge is $\vec{E} = \left(\frac{\lambda}{2\pi\epsilon_0 r} \right) \hat{r}$ where \hat{r} is a unit vector pointing radially away from the line and λ is the linear charge density along the line.

What is Gauss law written as? For a given surface the Gauss's law is stated as $\oint \mathbf{E} \cdot d\mathbf{s} = 0$. From this we can conclude that \mathbf{E} is necessarily zero on the surface.

What level is K in math Kumon? Level K introduces higher degree, fractional, irrational and exponential functions and their corresponding graphs. The skills developed here will help ease students into the calculus exercises of Level L. Students begin Level L by studying logarithmic functions, and are led into the beginning of calculus.

How do you get Kumon answers? If you are enrolled in Kumon, just head over to the center and ask the staff and they should give you one. Sometimes if the level is extremely high (usually J+ for math), you may need to pay for the solution manual.

What grade is J in Kumon? Kumon materials introduce new content in a way that enables students to learn independently, which is a valuable skill that can drive success in school and beyond. Students attain a significant mark of academic

distinction by reaching Math Level J before or during grade 6.

What grade is G in Kumon math? Reaching G by 5 (math level G by 5th Grade) has been the nationwide goal for all Kumon students in Grade 5 or under for many years; however, starting this fall, the goal at Kumon will be to reach math level G by 3rd Grade and math level J by 6th Grade.

What grade level is level K?

Is there a level Z in Kumon? Experts often cite fine motor skills as another key factor to being prepared for kindergarten which is another skill Kumon can help build. Kumon's Level Z is a part of the program designed to help develop fine motor skills and pencil holding skills.

Is Kumon actually helpful? Similarly, while Kumon will help your child develop the skills necessary to succeed on any standardized test, the program isn't tailored to any specific exam. If you're looking for tips and tricks and to excel on the SATs, for example, a test prep course may be a better option. Kumon isn't a quick fix.

Can we take a break from Kumon? If you wish to take one-month vacation from Kumon, we require a written notice 30 days before the 1st of the month you wish to take off.

What happens if you miss Kumon? Students absent for more than one month during a calendar year must re-register and pay the registration fee to resume Kumon study.

Can you finish Kumon? Program Completion When a student completes the Math or Reading Program, they receive an award for each subject. For Math, this award is presented to a student who has completed Math Level O200.

How old are kids at Kumon? Starting from as early as age three and up, Kumon will enable your children to get a head start, master concepts, and succeed academically in math, reading, and writing.

What Kumon level is algebra 1? Grade 9 math in the US is usually Geometry, which Kumon does not cover. For students on a slower track, Grade 9 is Algebra I, which would start at Level G. For students on a faster track, Grade 9 is Algebra II,

which would start at Level J. It depends what you mean by 9th grade math.

What grade is E in Kumon? Saai I. began Kumon when he was only 3 years old. He has been a Kumon student for almost 2.5 years. When Saai began his Kumon studies, he was doing 1st grade math. After just 2.5 years in Kumon, he has advanced to Level E, which is 5th grade work.

Who is Kumon owned by? Kumon Institute of Education Co. Ltd. (???????, Kumon Ky?iku Kenky?kai) is an educational network based in Japan and created by Toru Kumon.

What is the last level in Kumon? The Math Program consists of 21 Levels, numbered Levels 7A through Level O.

What is K in grade? While the District Administrator can choose any name for a grade level, typical grade levels include: = 1 through 20. = K: Kindergarten.

What are the grade levels for K? Children begin elementary school with kindergarten (grade K) around age 5. The next year is grade 1 and it goes up each year to grade 5. They finish elementary school around age 10. Children in elementary school usually learn different subjects from one teacher in a single classroom.

What grade level is K 5? K-5 (pronounced "kay through five") is an American term for the education period from kindergarten to fifth grade. It receives equal amounts of criticism and support in the educational industry.

Does Kumon help handwriting? Handwriting is an important part of completing the Kumon Worksheets. For students to begin learning their letters and numbers and writing them correctly, proper pencil grip and a certain level of pencil skills are needed.

What math is level O in Kumon? Completing Kumon Math Level O is a very important milestone, as it means your child will have mastered high school-level Algebra II, Geometry, Trigonometry, Pre- Calculus, and Calculus. Ideally we like to see students complete Math Level O before entering high school.

What year is level G in Kumon? ?? The G by 4 Award is when students reach Level G before or during their 4th-grade year. In Level G students develop the skills to calculate positive and negative numbers and improve their skills for algebraic expressions. They learn equations, inequalities, and linear functions. Congrats, Kush!

How to quit Kumon? To cancel your enrollment in the Kumon program, a one-month advance notice is required. TUITION PAID MONTHLY: 1. Monthly tuition is non-refundable and non-transferable.

Is Kumon for smart kids? The Kumon Program was developed to help students get to grade level and then surpass it. Kumon is ideally suited for gifted students because it is always pushing them to meet the next challenge at the best pace for the individuals.

Is Kumon Japanese or Korean? This was the origin of the Kumon Method. The first Math Center using Kumon Worksheets is opened in Moriguchi city, Osaka. The office of the Osaka Institute of Mathematics is established in Osaka, Japan. Toyonaka Uenozaka Center where Toru and Teiko Kumon instructed students together (circa 1965).

What age does Kumon end? There is no “right” age – Kumon can help your child advance in school – regardless of age and learning abilities. What are the age limits to Kumon enrollment? Your children can enroll and benefit from Kumon from age three through high school.

Can you freeze Kumon? A student is able to freeze Kumon membership without charge for one month per calendar year, per subject.

Does Kumon make money? On average, Kumon learning centers generate about \$173,000-\$300,000 in turnover per year and the franchisee typically earns a net profit margin of about 30%. Based on this, franchise owners can expect to make approximately \$52,000 – \$70,000 per year.

What grade is Kumon math level L? Currently, I am in Level L (equivalent to Grade 12 / pre-university).

What Kumon level is algebra 1? Grade 9 math in the US is usually Geometry, which Kumon does not cover. For students on a slower track, Grade 9 is Algebra I, which would start at Level G. For students on a faster track, Grade 9 is Algebra II, which would start at Level J. It depends what you mean by 9th grade math.

What is level 7A in Kumon? Kumon Reading Level 7A. Students begin building the pre-reading skills necessary to becoming emergent readers. Students connect words to familiar objects by pointing to and repeating words after hearing them read aloud.

What grade is level C in Kumon math? For example, all U.S. and Canadian Kumon students are encouraged to reach our Advanced Student Honor Roll goals, such as Kumon Level C by third grade, Level E by fourth grade, and Level G by fifth grade.

What grade is E in Kumon Math? Saai I. began Kumon when he was only 3 years old. He has been a Kumon student for almost 2.5 years. When Saai began his Kumon studies, he was doing 1st grade math. After just 2.5 years in Kumon, he has advanced to Level E, which is 5th grade work.

What grade does Kumon end? Our students, ranging from preschool through 12th grade, develop the skills that help them build upon each concept they learn. With individualized learning plans, motivation and practice, our center prepares students to become avid learners, encouraging success throughout their entire academic experience and beyond.

What math is level O in Kumon? Completing Kumon Math Level O is a very important milestone, as it means your child will have mastered high school-level Algebra II, Geometry, Trigonometry, Pre- Calculus, and Calculus. Ideally we like to see students complete Math Level O before entering high school.

What grade is J in Kumon math? J by 6 Award This award is presented to a student who has completed Math/Reading worksheet J10 or above before or during their 6th-grade year. Math Level J focuses on factorization, quadratic equations, and simultaneous equations.

What is level H in Kumon math? Level H aims to develop your ability to solve simultaneous linear equations with two to four variables. You will also study

operations with monomials and polynomial and the basics of factorization. Contents of Level H. Instructor's Comments. 2022 Kumon Institute of Education.

What is level D in Kumon math? In Level D, students learn 2-digit by 2-digit multiplication before studying long division. At the end of the level, students study fractions: first learning to convert improper fractions into mixed numbers and vice versa, and then learning to reduce fractions.

What is level Z in Kumon? In Level Z, students learn how to use a pencil and develop pencil skills.

What level is 4A in Kumon? In Level 4A, your child will continue to develop pre-reading skills by saying words with consonant blends, consonant digraphs, consonant-controlled vowels, and long vowels produced by the "silent e." Your child will continue to develop fine motor skills by tracing and copying letters and whole words.

What is level 6A in Kumon? Kumon Reading Level 6A Students review words from Level 7A and continue to build more vocabulary by recognizing and reciting words using picture cues. They will point to and recite rhyming words, rhyming phrases, and rhyming poems.

What is Kumon level G? Reaching Level G is a huge milestone in a student's Kumon journey. In math, students start learning algebra, while reading students start to learn more advanced concepts and summarize what they read. Of course, it also means they "graduate" to the bright yellow Kumon bag!

What is level B in Kumon math? Level B, students encounter their first word problems in Kumon. The level draws on the advanced mental calculation skills developed in previous levels when students "carry" in addition questions and "borrow" in questions involving subtraction.

What is level 5A in Kumon? © Kumon Castleridge & South Centre 2020. Reading Study Guide - Level 5A. Kumon Reading Level 5A. Students develop more pre-reading skills by saying individual sounds while tracing letters. Toward the end of the level, students begin to put together simple three- letter words.

SPSS Statistics: A Practical Guide from Cengage

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SPSS Statistics, a leading software package for statistical analysis, offers a wide range of features and capabilities to assist researchers and data analysts in their work. Cengage, a renowned publisher of educational materials, provides a practical guide to using SPSS that can help users navigate the software effectively.

Q: What are the key features of SPSS Statistics? A: SPSS Statistics offers a comprehensive set of statistical procedures, including descriptive statistics, correlation analysis, hypothesis testing, regression analysis, factor analysis, and more. It also features a user-friendly interface, data management tools, and visualization options to enhance data exploration and presentation.

Q: How can I get started with SPSS Statistics? A: The Cengage guide provides clear step-by-step instructions on how to install and set up SPSS Statistics. It also offers a detailed overview of the software's interface, data file structure, and common navigation tools.

Q: How do I perform statistical analyses in SPSS? A: The guide includes practical examples and tutorials that guide users through various types of statistical analyses. It covers topics such as selecting appropriate statistical tests, running analyses, interpreting output, and creating tables and graphs.

Q: How can I troubleshoot errors in SPSS? A: The Cengage guide provides troubleshooting tips and error messages to help users resolve common issues that may arise while using the software. It also includes contact information for Cengage support in case of further assistance.

Q: What learning resources are available for SPSS Statistics? A: In addition to the written guide, Cengage offers a range of learning resources such as online videos, interactive simulations, and practice exercises. These resources can help users reinforce their understanding of SPSS and apply it to real-world data analysis tasks.

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