

المهارات المطلوب إتقانها لاجتياز اختبار القبول للصف الأول الثانوي / المسار الدولي Required Skills for Grade ١٠ Entrance Exam

<p><u>أولاً: الوظيفة النحوية :</u> الحال - التمييز - المستثنى - الصفة - العطف - البدل .</p> <p><u>ثانياً : الصنف اللغوي :</u> اسم الفاعل - اسم المفعول - صيغ المبالغة - اسم الزمان و المكان - اسم الآلة - المصادر .</p> <p><u>ثالثاً: الأسلوب اللغوي :</u> القسم - الشرط - التفضيل - الاستثناء - التعجب - العدد .</p> <p><u>رابعاً: الرسم الإملائي :</u> الألف اللينة في الأفعال الثلاثية - الألف اللينة في الأفعال غير الثلاثية - رسم بعض الكلمات الموصولة خطأً - رسم بعض الكلمات المفصولة خطأً رسماً صحيحاً - رسم بعض الكلمات المزيد بعض أحرفها كالألف والواو والهاء - رسم بعض الكلمات المحذوف بعض أحرفها كهزمة الوصل .</p> <p><u>خامساً: التواصل الكتابي :</u> إبداء الرأي _ المذكرات اليومية .</p>	<p>مادة اللغة العربية</p> <p>مشرفة المادة</p> <p>أ لينا زراري</p>
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<p>Literature</p>	<p>The student should be able to comprehend passages that include the following skills:</p> <p><u>Reading Skills:</u></p> <ul style="list-style-type: none"> - Main ideas and details - Sequence - Author's purpose - Fact and opinion - Cause and effects - Compare and contrast -Make predictions -Draw Conclusion -Make inferences -Paraphrasing -Summarizing <p>In addition, vocabulary strategies (context clues, synonyms, antonyms,....etc)</p> <p><u>literary Skills:</u></p> <p><u>-Elements of short stories :</u> (setting, character, plot, conflict and its types, point of view, theme (stated and implied)</p> <p><u>Poetry:</u></p> <ul style="list-style-type: none"> - Metaphors - Personification - Similes
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	<p>Sound Devices:</p> <ul style="list-style-type: none"> - Alliteration - Repetition - Assonance - Consonance - Onomatopoeia - Rhyme - Rhythm - Meter <p>Elements of Drama:</p> <ul style="list-style-type: none"> - Acts and scenes - Playwright - Script - Stage directions - Sets - Props
<p>Language</p>	<p>The student should be able to identify:</p> <ul style="list-style-type: none"> - Parts of Speech - Phrases (types and functions) - Pronouns - Modifiers (adjectives and Adverbs) - Clauses (Types and functions) - Verb Tenses - Punctuation - Agreement - Kinds of Sentences
<p>Writing</p>	<p>The student should be able to write any essay from the following:</p> <ul style="list-style-type: none"> - short story essay - cause and effect essay - persuasive essay - compare and contrast essay
<p>Math Subject مشرفة المادة أ/ دلال اليافوي</p>	<ul style="list-style-type: none"> • Rational Number (Add, Subtract Multiply and divide) • Solve multi step equation • Adjacent and vertical angles. • Writing and solving proportions (Similar figures and scale drawing). • Finding solution for two variable equations. • Solving and graphing equations and inequalities • Solving and graphing equations and inequalities • Writing scientific notation. • Polynomials(Add , subtract , Multiply , factoring ,GCF) • Simplifying Radical expression. • Solving Quadratic equation. • Area and perimeter for different shapes.

Chemistry

Introduction to Chemistry

1. Introduce safety procedures in the laboratory.
2. Identify various lab equipments.
3. Identify the locations of fire extinguisher, fire blanket and eye wash fountain.
4. Introduce lab report format for Chemistry Honors.
5. Apply lab report format to recipe lab.
6. Make and interpret a graph using proper elements of graph construction and introduce the concept of 'best fit' line.
7. Introduce direct and indirect proportions.

Matter and Change

1. Introduce Chemistry as a physical science.
2. Introduce branches of Chemistry.
3. Define states of matter.
4. List properties of matter. (Physical and Chemical, Extensive and Intensive)
5. Classification of matter. (Mixtures, Pure Substances)
6. Introduce methods of separation of mixtures (Distillation, Chromatography, Filtration and Centrifugation)

Measurement and Calculations

1. Apply scientific method to a given problem.
2. Write the basic SI system units, symbols and meanings.
3. Use SI system to express numbers with the prefixes (M, k, c, m, n)
4. Manipulate units in mathematical expressions.
5. Introduce writing numbers in scientific notation and to express any given number in scientific notation and change a number written in scientific notation to standard form.
6. Calculate numbers using scientific notation.
7. Express measurements with correct number of significant figures.
8. Express calculated numbers correctly using rules of significant figures.
9. Explain the difference between accuracy and precision.
10. Calculate the percent error.
11. Introduce dimensional analysis (factor label method).
12. Apply factor label method to convert between different units.

The Building Blocks of Matter

1. Identify steps in development of Modern Atomic Theory.
2. Draw the atomic models of Dalton, Thomson, Kelvin, Rutherford, Bohr and Modern Atomic Theory.
3. Use the laws of Conservation of Mass, Multiple Proportions and Constant Composition to answer atomic questions.
4. Explain Milikan's oil drop experiment to calculate charge and mass of electron.
5. Study forces in nucleus and their interactions.
6. Identify symbols of elements.

٧. Define atomic number and mass number and calculate number of e, p, and n using it.
٨. Calculate average atomic mass of elements.
٩. Define mole, molar mass and Avogadro's number.
١٠. Apply mole concept to calculate molar mass, mass of a substance from moles, and number of particles from the molar mass.
١١. Use mole diagram to show relationship between mass in g, amount in moles and number of atoms of elements in a substance.

Arrangement of Electrons in Atoms

١. Identify properties of light.
٢. Define the properties of electromagnetic radiation (EMR) and identify light as EMR.
٣. Identify dual nature of light. (Wave- Particle nature)
٤. Distinguish between continuous and line spectrum.
٥. Calculate the "wavelike" quantities of matter such as wavelength, frequency, speed and energy.
٦. Identify atomic orbital and describe the many aspects of the orbital energy levels(s,p,d,f) of an atom including shapes, sizes and relative energy.
٧. Assign quantum numbers to electrons in orbitals. (n, l, m, s)
٨. Write electron configuration of neutral atoms applying Aufbau's principal, Pauli's Exclusion Principle and Hund's Rule.
٩. Write electron configurations for excited atoms.

Biology

١. Understand the nature, growth and function of scientific theories؛
٢. Use the Scientific Method in carrying out laboratory investigations in order to
٣. organize, interpret, and present data effectively؛
٤. Demonstrate understanding of the important theories, concepts, facts, principles؛
٥. processes and terminology of the biological sciences؛
٦. Appreciate the interrelationship of all living things on earth and show a reverence
٧. The Human Body
٨. Digestive and Excretory Systems : Nervous System
٩. Skeletal, Muscular, and Integumentary Systems
١٠. Reproductive system

Good luck