



قسم المواد العربية

الكفايات المطلوبة لاجتياز امتحانات القبول في مادة اللغة العربية

الصف الثامن

. في القراءة :

- . أن تميّز الطالبة بين أنماط النصوص (النمط السردى، الوصفي، الحوارى)..
- . أن تستخرج الطالبة أفكار النصّ الرئيسيّة والفرعيّة.
- . أن توظّف الطالبة خبراتها في بناء معاني النصّ بالإجابة عمّا يُطلب منها.

. في القواعد :

- . أن تميّز الطالبة بين عناصر الجملة الاسميّة الأساسيّة وبين عناصر الجملة الفعلية الأساسيّة.
- . أن تميّز بين الفعل اللازم والفعل المتعدّي.
- . أن تميّز بين الفعل الصّحيح والفعل المعتلّ.
- . أن تصرّف أنواعا من الأفعال في صيغة الماضي والمضارع المنصوب أو المضارع المجزوم.
- . أن تعرب الطالبة الجملة الفعلية.
- . أن تصوغ الطالبة جملا فعلية تامّة المعنى وجملا اسمية تامّة المعنى.
- . أن تميّز الطالبة بين عناصر الجملة الاسميّة المسبوقة بكان وأخواتها/ إنّ وأخواتها.
- . أن تُعرب الطالبة الجملة الاسميّة والجملة الاسميّة المسبوقة بكان وأخواتها/ إنّ وأخواتها.
- . أن تميّز الطالبة بين عناصر الجملة الاسميّة المسبوقة بإنّ أو إحدى أخواتها.

. الإنتاج الكتابي :

- . أن تكتب: قصّة قصيرة، مغامرة، رسالة إخوانيّة، نصّا حواريا، نصّا وصفيّا... من خلال موضوع مطروح.
- . أن تراعي التدرّج المطلوب في بناء النمط القصصي (من البداية، إلى الأزمة، إلى النهاية) وتوظّف أركان السرد (المكان، الزّمان، الشّخصيات، الأحداث) توظيفا مناسباً للموضوع.
- . أن تكتب رسالة إخوانيّة ملتزمة بأركانها: تاريخ، مكان، صيغة التوجه، المواضيع، عبارة الختام، التوقيع.
- . أن تلتزم بمنهج النصّ الحوارى.
- . أن تراعي تقنيات الوصف: موصوفات، صفات، أساليب وصف مناسبة، نظام الوصف (التدرّج في الوصف).
- . أن تتوسّع في تحليل الأفكار، وتصف مشاعرها.
- . أن تكتب نصّها بلغة عربيّة فصيحة.
- . أن تراعي في إنتاجها سلامة قواعد اللّغة نحواً وصرفاً ورسمياً إملائياً.
- . أن تستعمل علامات الوقف المناسبة.
- . أن تلتزم بوضوح الخطّ ونظافة ورقة الاختبار.

تمنياتنا لك بالتوفيق



ENGLISH REQUIREMENTS FOR GRADE 8 ENTRY

The English Entrance Exam will consist of:

Reading

A passage will be given to students to read and they will need to answer related questions.

Students will also be expected to be able to identify different aspects of grammar from the given passage and this will include the following:

- Punctuation
- Parts of speech (nouns, verbs, adjectives, adverbs, articles, prepositions and conjunctions)
- Tenses
- Sentence Structure
- Direct and reported speech
- Synonyms and antonyms
- Homophones and homonyms

Writing

Students are set a writing task and they will need to answer using one of the following styles:

- Writing to inform
- Writing to describe
- Writing to explain
- Writing to narrate
- Writing to persuade
- Writing to advise

Students are expected to write an essay that has a clear introduction, body and conclusion.



MATHEMATICS REQUIREMENTS for GRADE 8 Entry

FACTORS AND PRIMES

- Identify and use multiples, factors, common factors, highest common factors, lowest common multiples and primes; write a number in terms of its prime factors, e.g. $500 = 2^2 \times 5^3$.
- Calculate squares and square roots, use the notation $\sqrt{49}$ and 64^2 and index notation for positive integer powers.

PYTHAGORUS' THEOREM

- Know that the longest side of a right-angled triangle is called the hypotenuse.
- Know and use Pythagoras' theorem to solve two-dimensional problems involving right-angled triangles.

ROUNDING AND ESTIMATING

- Round numbers to a given number of decimal places or significant figures; use to give solutions to problems with an appropriate degree of accuracy.
- Round whole numbers to a positive integer power of 10, e.g. 10, 100, 1000 or decimals to the nearest whole number or one or two decimal places.
- Consolidate adding and subtracting integers and decimals, including numbers with differing numbers of decimal places.
- Use known facts and place value to multiply and divide simple decimals, e.g. 0.07×9 , $2.4 \div 3$.
- Use the order of operations, including brackets and powers.
- Use the order of operations, including brackets, with more complex calculations.

DATA ANALYSIS

- Find the mode (or modal class for grouped data), median and range.
- Calculate the mean, including from a simple frequency table.
- Draw and interpret:
 - bar-line graphs
 - pie charts
- Construct and use:
 - frequency tables
- Draw accurate mathematical diagrams, graphs and constructions.

NETS AND SURFACE AREA

- Draw simple nets of solids, e.g. cuboids, regular tetrahedron, square-based pyramid, triangular prism.
- Use simple nets of solids to work out their surface areas.
- Recognise and use spatial relationships in two and three dimensions.

RATIO AND PROPORTION

- Simplify ratios, including those expressed in different units; divide a quantity into more than two parts in a given ratio.
- Use the unitary method to solve simple problems involving ratio and direct proportion.
- Solve simple word problems including direct proportion problems

ALGEBRA BRACKETS

- Construct and solve linear equations with integer coefficients (unknown on either or both sides, without or with brackets).
- Know that algebraic operations, including brackets, follow the same order as arithmetic operations; use index notation for small positive integer powers.
- Simplify or transform linear expressions with integer coefficients; collect like terms; multiply a single term over a bracket.
- Manipulate numbers, algebraic expressions and equations, and apply routine algorithms.
- Simplify or transform algebraic expressions by taking out single-term common factors.
- Expand the product of two linear expressions of the form $x \pm n$ and simplify the corresponding quadratic expression.
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ARITHMETIC FRACTIONS AND PERCENTAGES

- Find equivalent fractions, decimals and percentages by converting between them.
- Calculate and solve problems involving percentages of quantities and percentage increases or decreases; express one given number as a fraction or percentage of another.
- Use known facts and place value to calculate simple fractions and percentages of quantities.
- Solve word problems involving calculations with whole numbers, fractions, percentages, decimals, money or measures, including multi-step problems.
- Add and subtract fractions and mixed numbers; calculate fractions of quantities (fraction answers); multiply and divide an integer by a fraction.
- Add, subtract, multiply and divide fractions, interpreting division as a multiplicative inverse and cancelling common factors before multiplying or dividing.

PROBABILITY

- Know that if the probability of an event occurring is p , then the probability of it not occurring is $1 - p$.
- Find probabilities based on equally likely outcomes in practical contexts.
- Find and list systematically all possible mutually exclusive outcomes for single events and for two successive events.
- Compare estimated experimental probabilities with theoretical probabilities, recognising that:
 - when experiments are repeated different outcomes may result
 - increasing the number of times an experiment is repeated generally leads to better estimates of probability.
- Convert a fraction to a decimal using division; know that a recurring decimal is a fraction.

ANGLES, BEARINGS AND MAPS

- Identify alternate angles and corresponding angles.
- Calculate the sum of angles at a point, on a straight line and in a triangle, and prove that vertically opposite angles are equal; derive and use the property that the angle sum of a quadrilateral is 360° .
- Understand a proof that the angle sum of a triangle is 180° and that of a quadrilateral is 360° .
- Understand a proof that the exterior angle of a triangle is equal to the sum of the two interior opposite angles.
- Solve geometrical problems using properties of angles, of parallel and intersecting lines, and of triangles and special quadrilaterals, explaining reasoning with diagrams and text.
- Interpret and make simple scale drawings.
- Use bearings (angles measured clockwise from the north) to solve problems involving distance and direction.

FORMULAE

- Substitute positive and negative integers into formulae, linear expressions and expressions involving small powers, e.g. $3x^2 + 4$ or $2x^3$, including examples that lead to an equation to solve.
- Derive and use simple formulae, e.g. to convert degrees Celsius ($^{\circ}\text{C}$) to degrees Fahrenheit ($^{\circ}\text{F}$).
- Add, subtract, multiply and divide integers.
- Know that letters play different roles in equations, formulae and functions; know the meanings of *formula* and *function*.
- Construct linear expressions.
- Construct and solve linear equations with integer coefficients (unknown on either or both sides, without or with brackets).
- Derive formulae and, in simple cases, change the subject; use formulae from mathematics and other subjects.
- Manipulate numbers, algebraic expressions and equations, and apply routine algorithms.

MONEY AND TIME

- Know the relationships between units of time; understand and use the 12-hour and 24-hour clock systems; interpret timetables; calculate time intervals.
- Solve problems involving percentage changes, choosing the correct numbers to take as 100% or as a whole, including simple problems involving personal or household finance, e.g. simple interest, discount, profit, loss and tax.

STRAIGHT LINE GRAPHS

- Construct tables of values and use all four quadrants to plot the graphs of linear functions, where y is given explicitly in terms of x ; recognise that equations of the form $y = mx + c$ correspond to straight-line graphs
- Know the significance of m and find the gradient of a straight line graph.
- Draw accurate mathematical diagrams, graphs and constructions.

POLYGONS

- Classify quadrilaterals according to their properties, including diagonal properties.
- Identify all the symmetries of 2D shapes.
- Recognise line and rotation symmetry in 2D shapes and patterns; draw lines of symmetry and complete patterns with two lines of symmetry; identify the order of rotation symmetry.

CIRCLES AND CYLINDERS

- Know and use formulae for the circumference and area of a circle.
- Know the definition of a circle and the names of its parts
- Calculate lengths, surface areas and volumes in right-angled prisms and cylinders.

UNITS OF MEASUREMENTS

- Choose suitable units of measurement to estimate, measure, calculate and solve problems in everyday contexts.
- Know abbreviations for and relationships between metric units; convert between:
 - kilometres (km), metres (m), centimetres (cm), millimetres (mm)
 - tonnes (t), kilograms (kg) and grams (g)
 - litres (l) and millilitres (ml)

SPEED, DISTANCE AND TIME

- Solve problems involving average speed.
- Draw and interpret graphs in real life contexts involving more than one component, e.g. travel graphs with more than one person.
- Draw accurate mathematical diagrams, graphs and constructions.

SIMILARITY

- Understand and use the language and notation associated with enlargement; enlarge 2D shapes, given a centre of enlargement and a positive integer scale factor.

QUESTIONNAIRES AND ANALYSIS

- Identify and collect data to answer a question; select the method of collection, sample size and degree of accuracy needed for measurements.
- Draw, and interpret:
 - simple line graphs for time series
- Draw accurate mathematical diagrams, graphs and constructions