

## English Language Literacy

Following are the **contents of study** to prepare for the English admission test for Cambridge IGCSE classes. A sample question paper, containing English section, is attached to give you an idea of the paper pattern and division of marks.

### Year 10 (IG-II)

#### GRAMMAR

- **Sentence structure:** compound sentence, complex sentence, compound-complex
- **Present tense:** Simple, Continuous, and Perfect – (negative, interrogative)
- **Past tense:** Simple, Continuous, and Perfect – (negative, interrogative)
- **Use of 'since' and 'for'**
- **Conditional sentences:** type-I and type-II, type-III

#### READING COMPREHENSION

- 2 to 3-word answer of questions, multiple choice questions, text-based word meaning

#### COMPOSITION

- letter/email writing
- Summary writing
- Article writing/Review writing/Report writing

## Math (Numeracy) Literacy

Following are the **contents of study** to prepare for the math admission test for Cambridge IGCSE classes. A specimen question paper, containing math section, is attached to give you an idea of the paper pattern and division of marks.

### Year 10 (IG-II)

#### Numbers:

- Demonstrate an understanding of ratio and proportion that involve numerical problems. Increase and decrease a quantity by a given ratio
- Calculate a given percentage of a quantity. Express one quantity as a percentage of another.
- Calculate percentage increase or decrease. Carry out calculations involving reverse percentages. E.g., finding the cost price given the selling price and the percentage profit.

#### Algebra:

- Rearrange and make a subject of simple formulae
- Manipulate directed numbers. Use brackets and extract common factors. Expand products of algebraic expressions. Expand products of algebraic expressions and factorise where possible expressions of the form:

e.g. expand  $3x(2x - 4y)$

e.g. factorise  $9x^2 + 15xy$

e.g. expand  $(x + 4)(x - 7)$

- Manipulate algebraic fractions

e.g.  $\frac{x}{3} + \frac{x-4}{2}$ ,  $\frac{2x}{3} - \frac{3(x-5)}{2}$ ,  $\frac{3a}{4} \times \frac{9a}{10}$ ,

$\frac{3a}{4} \div \frac{9a}{10}$ ,  $\frac{1}{x-2} + \frac{2}{x-3}$

#### Mensuration:

- Carry out calculations involving the perimeter and area of a rectangle, triangle, parallelogram and trapezium
- Discuss area and volume of simple shapes; e.g., Cube, Cuboid

#### Graphs:

- Interpret and use graphs in practical situation including travel graph and conversion graphs
- Construct and interpret table of values to discuss graph

#### Geometry and Transformation

- Use and interpret terms point, line, parallel lines, angles, acute, reflexive, interior angles, exterior angles and related fundamental concepts
- Reflect simple plane figures in horizontal or vertical lines. Rotate simple plane figures about the origin, vertices or midpoints of edges of the figures, through multiples of  $90^\circ$ .

#### Statistics:

- Read, interpret and draw inferences from tables and statistical diagram (pie chart, bar chart)
- Compare sets of data using tables, graphs and statistical measures

## Science Literacy

Following are the **contents of study** to prepare for the science admission test for Cambridge IGCSE classes. A specimen question paper, containing science section, is attached to give you an idea of the paper pattern and division of marks.

### Year 10 (IG-II)

- Transport in plants and animals
- Nutrition, respiration and excretion
- Coordination and homeostasis
- Pathogens, immunity and drugs
- The particulate nature of matter
- Atoms, elements, and compounds
- The Periodic table
- Chemical reactions
- Experimental Techniques
- Measurements
- Motion (speed, velocity, acceleration, speed-time graphs)
- Work, energy and power

## Computer Science Literacy

Following are the **contents of study** to prepare for the computer science admission test for Cambridge IGCSE classes. A specimen question paper, containing science section, is attached to give you an idea of the paper pattern and

### Year 10 (IG-II)

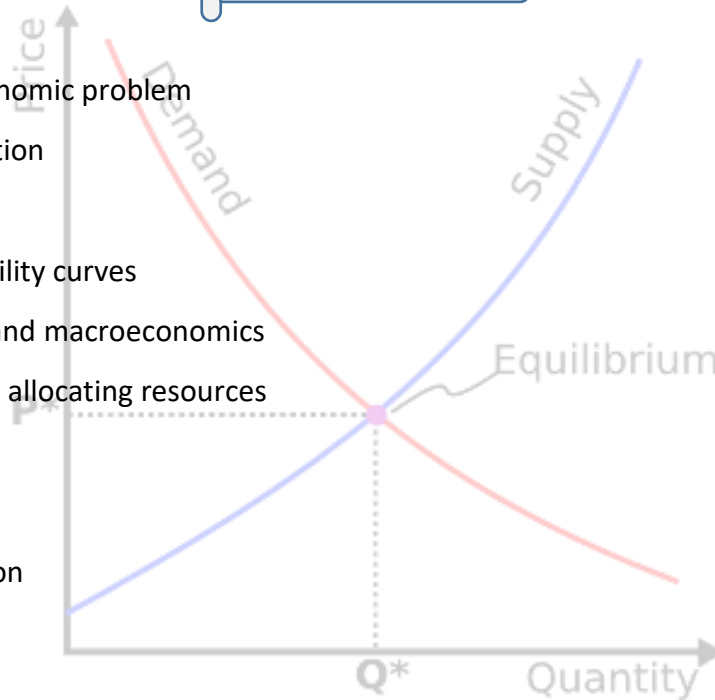
- Number System (Conversion)
  - Denary, Binary
  - Hexa-decimal
- Measurement of the size of computer memories
- Measurement of the size of computer memories (Year 8, 9, 10)
- Data transmission
  - HTML, Web-browser & internet Services
- Logic Gates
  - Logic Circuit & Truth Tables
- Computer Architecture
  - Operating System & Interrupts
- Input & Output devices
  - Sensors & their uses
- Programming Languages

## Economics Literacy

Following are the **contents of study** to prepare for the economics admission test for Cambridge IGCSE classes. Question in the admission test will require you to provide short answers only mainly checking your conceptual understanding.

### Year 10 (IG-II)

- The nature of economic problem
- Factors of production
- Opportunity cost
- Production possibility curves
- Microeconomics and macroeconomics
- Role of markets in allocating resources
- Demand and
- Supply
- Price determination
- Price change



## Accounting Literacy

Following are the **contents of study** to prepare for the accounting admission test for Cambridge IGCSE classes. Question in the admission test will require you to provide short answers only mainly checking your conceptual understanding.

### Year 10 (IG-II)

- Introduction to accounting
- Double entry book-keeping – Part A
- The trial balance
- Double entry book-keeping – Part B
- Petty cash books
- Business documents
- Books of prime entry
- Financial statements A
- Financial statements B
- Accounting rules
- Other payables and receivables

