

## 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 8 (IG Prep.)

#### GRAMMAR

- **Sentence structure:** simple and compound sentence (joining and conversion)
- **Present tense:** Simple, Continuous, and Perfect – (negative, interrogative)
- **Past tense:** Simple, Continuous, and Perfect – (negative, interrogative)
- **Future tense:** Simple, Continuous, and Perfect – (negative, interrogative)

#### READING COMPREHENSION

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

#### COMPOSITION

- letter/email writing
- paragraph writing (120-150 words)

## 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 8 (IG Prep.)

#### Number

- Identify and use natural numbers, integers (positive, negative and zero), prime numbers, square and cube numbers, common factors and common multiples
- Express numbers as a product of prime factors. Finding the lowest common multiple (LCM) and highest common factor (HCF) of two or more numbers.
- Use directed numbers in practical situations. E.g., temperature changes, flood levels
- Use the four rules for calculations with whole numbers, decimals and fractions (including mixed numbers and improper fractions), including correct ordering of operations and use of brackets.
- Calculate a given percentage of a quantity
- Calculate times in terms of the 24-hour and 12-hour clock. Read clocks, dials and timetables

#### Algebra

- Manipulate directed numbers. Use brackets and extract common factors. Expand products of algebraic expressions. e.g., expand  $3 \times (2x - 4y)$ , Two brackets only, e.g., expand  $(x + 4)(x - 7)$
- Recognize sequences of square, cube and triangular numbers.
- Manipulate simple algebraic fractions

#### Geometry

- Shapes and geometric reasoning
- Calculate unknown angles using the following geometrical properties: e.g. Angles at a point and angles at a point on a straight line and intersecting straight lines

#### Measure

- Carry out calculations involving the perimeter and area of a rectangle, triangle, parallelogram and trapezium and compound shapes derived from these
- Carry out calculations involving the volume of cube, cuboid, and simple shapes

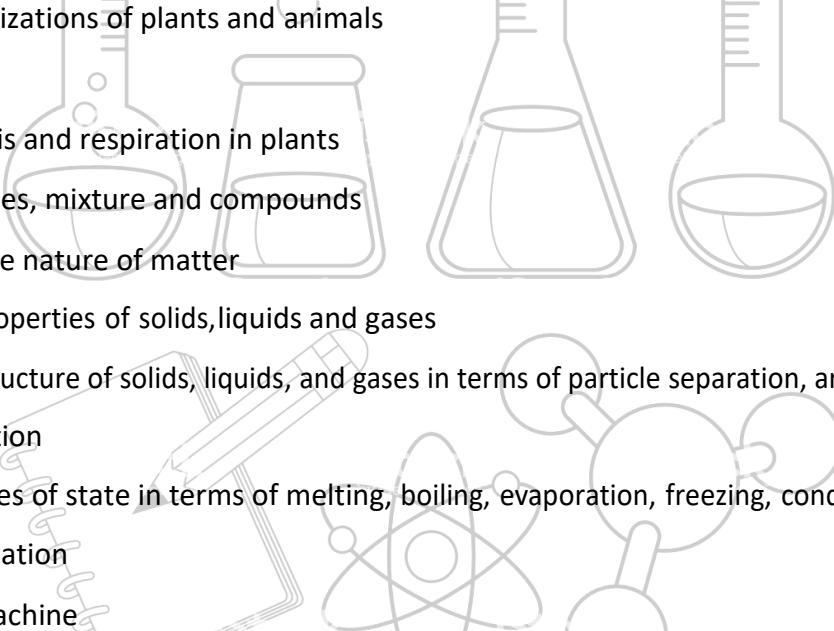
#### Handling data

- Read, interpret and draw inferences from tables and statistical diagrams. Compare sets of data using tables, graphs and statistical measures.
- Interpret bar charts, pie charts, pictograms

## 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 8 (IG Prep.)

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- Cellular organizations of plants and animals
  - Sense organs
  - Photosynthesis and respiration in plants
  - Atom molecules, mixture and compounds
  - The particulate nature of matter
    - The properties of solids, liquids and gases
    - The structure of solids, liquids, and gases in terms of particle separation, arrangement and types of motion
    - Changes of state in terms of melting, boiling, evaporation, freezing, condensation and sublimation
  - Forces and machine

## 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 8 (IG Prep.)

- Number System (Conversion)
  - Denary, Binary
- Measurement of the size of computer memories
- Logic Gates
- Computer Architecture
- Input & Output devices

