

## STUDY WITH CONCEPTS

# THE REAL-WORLD OLYMPIAD SYLLABUS

**CLASS 5 / 2026–27**

Official section-wise syllabus and eight bilingual sample questions designed to assess how school concepts work in everyday life.

**40**

MULTIPLE-CHOICE QUESTIONS

**80**

MAXIMUM MARKS

**60**

MINUTES

**Four sections. Eight essential skills.****SECTION A****Quantitative and Data Interpretation**

Practical Mathematics · Data Interpretation

**SECTION B****Science and Environmental**

Applied Science · Environmental Awareness

**SECTION C****Logical Reasoning and Decision Making**

Logical Reasoning · Decision-Making

**SECTION D****Financial and Entrepreneurial Literacy**

Financial Literacy · Entrepreneurship

**School Concepts. Everyday Challenges.**

Learn it in School. Apply it in Life.

Scoring: +2 correct; 0 incorrect/unattempted; no negative marking. Each section carries 10 questions and 20 marks.

## SECTION A / Quantitative and Data Interpretation

10 QUESTIONS • 20 MARKS

SKILL AREA 01 / 05 QUESTIONS / 10 MARKS

# Practical Mathematics

Everyday calculations, measurement and space

## CHAPTERS / TOPICS AND COVERAGE

- 1 Basic Operations in Everyday Life**  
Addition, subtraction, multiplication and division in shopping, distribution and household activities.
- 2 Fractions and Decimals**  
Understanding half, one-fourth, three-fourths and simple decimal quantities in practical situations.
- 3 Measurement and Unit Conversion**  
Length, mass, capacity and basic conversions involving metres, centimetres, kilograms, grams, litres and millilitres.
- 4 Time and Daily Scheduling**  
Reading clocks, interpreting timetables, calculating elapsed time and planning activities.
- 5 Perimeter and Area**  
Using the perimeter and area of squares and rectangles in fencing, flooring and space planning.

## LEARNING OUTCOME

Students will apply basic mathematical concepts to calculate quantities, compare measurements, plan time and solve practical problems involving money and space.

## BILINGUAL SAMPLE QUESTION • Q01

## School Garden Planning

## ENGLISH

A school wants to put fencing around a rectangular vegetable garden that is 12 metres long and 8 metres wide. The school already has 30 metres of fencing wire. How much additional wire is needed to cover the complete boundary once?

## HINDI

एक विद्यालय 12 मीटर लंबे और 8 मीटर चौड़े आयताकार सब्जियों के बगीचे के चारों ओर बाड़ लगाना चाहता है। विद्यालय के पास पहले से 30 मीटर तार है। पूरे बगीचे की सीमा पर एक बार बाड़ लगाने के लिए कितने अतिरिक्त तार की आवश्यकता होगी?

**A** 10 metres  
10 मीटर

**B** 8 metres  
8 मीटर

**C** 20 metres  
20 मीटर

**D** 40 metres  
40 मीटर

## SECTION A / Quantitative and Data Interpretation

10 QUESTIONS • 20 MARKS

SKILL AREA 02 / 05 QUESTIONS / 10 MARKS

# Data Interpretation

Reading information and drawing supported conclusions

## CHAPTERS / TOPICS AND COVERAGE

- 1 Reading Data Tables**  
Understanding rows, columns and numerical information in everyday records.
- 2 Tally Marks**  
Recording and interpreting quantities using tally marks.
- 3 Pictographs**  
Understanding pictorial representations and their numerical keys.
- 4 Bar Graphs**  
Reading, comparing and interpreting information presented through bar graphs.
- 5 Data-Based Conclusions**  
Comparing quantities, calculating differences and identifying conclusions supported by given information.

## LEARNING OUTCOME

Students will interpret real-world data, compare quantities, identify trends in simple displays and distinguish supported conclusions from unsupported assumptions.

## BILINGUAL SAMPLE QUESTION • Q02

## School Library Records

## ENGLISH

A school librarian records the number of books borrowed by three classes during a week.

| Class / कक्षा | Books Borrowed / ली गई पुस्तकें |
|---------------|---------------------------------|
| 5A            | 18                              |
| 5B            | 24                              |
| 5C            | 21                              |

Which conclusion can the librarian correctly make from these records?

## HINDI

एक विद्यालय का पुस्तकालयाध्यक्ष एक सप्ताह के दौरान तीन कक्षाओं द्वारा ली गई पुस्तकों की संख्या दर्ज करता है।

इन आँकड़ों के आधार पर पुस्तकालयाध्यक्ष कौन-सा निष्कर्ष सही रूप से निकाल सकता है?

- A** Every student in Class 5B borrowed a book.  
कक्षा 5B के प्रत्येक विद्यार्थी ने एक पुस्तक ली।

**B** Class 5C has more students than Class 5A.  
कक्षा 5C में कक्षा 5A से अधिक विद्यार्थी हैं।

**C** Class 5B borrowed 6 more books than Class 5A.  
कक्षा 5B ने कक्षा 5A से 6 पुस्तकें अधिक लीं।

**D** Class 5A will borrow exactly 18 books next week.  
कक्षा 5A अगले सप्ताह ठीक 18 पुस्तकें लेगी।

## SECTION B / Science and Environmental

10 QUESTIONS • 20 MARKS

SKILL AREA 03 / 05 QUESTIONS / 10 MARKS

# Applied Science

Scientific thinking in familiar situations

## CHAPTERS / TOPICS AND COVERAGE

- 1 Materials and Their Properties**  
Selecting materials based on transparency, flexibility, absorption and waterproofing.
- 2 Water and Changes of State**  
Understanding melting, freezing, evaporation and condensation in everyday situations.
- 3 Light and Shadows**  
Understanding light sources, transparent and opaque objects, and shadow formation.
- 4 Living Things and Plant Needs**  
Applying knowledge of water, air and sunlight to familiar living things.
- 5 Health, Hygiene and Scientific Observation**  
Using scientific observations to make safe and practical everyday choices.

## LEARNING OUTCOME

Students will use basic scientific understanding to explain familiar phenomena, select suitable materials, predict observable outcomes and make practical choices.

## BILINGUAL SAMPLE QUESTION • Q03

## School Shadow Show

## ENGLISH

Students are preparing a shadow-puppet show for their school. They place a torch behind a screen and need to cut shapes from a material that will block the torchlight and produce clear shadows. Which material should they choose for making the puppets?

## HINDI

विद्यार्थी अपने विद्यालय में छाया-कठपुतली का कार्यक्रम तैयार कर रहे हैं। वे एक पर्दे के पीछे टॉर्च रखते हैं और उन्हें ऐसी सामग्री से आकृतियाँ बनानी हैं जो टॉर्च की रोशनी को रोककर स्पष्ट छाया बनाए। कठपुतलियाँ बनाने के लिए उन्हें कौन-सी सामग्री चुननी चाहिए?

- |                                                        |                                                             |
|--------------------------------------------------------|-------------------------------------------------------------|
| <b>A</b> Clear plastic sheet<br>पारदर्शी प्लास्टिक शीट | <b>B</b> Transparent glass sheet<br>पारदर्शी काँच की शीट    |
| <b>C</b> Thick cardboard<br>मोटा गत्ता                 | <b>D</b> Transparent tracing sheet<br>पारदर्शी ट्रेसिंग शीट |

## SECTION B / Science and Environmental

10 QUESTIONS • 20 MARKS

SKILL AREA 04 / 05 QUESTIONS / 10 MARKS

# Environmental Awareness

Resources, waste and responsible everyday action

## CHAPTERS / TOPICS AND COVERAGE

- 1 Waste Management**  
Identifying waste categories and selecting appropriate disposal methods.
- 2 Reduce and Reuse**  
Understanding practical ways to reduce unnecessary waste.
- 3 Water Conservation**  
Identifying water wastage and evaluating simple water-saving actions.
- 4 Electricity Conservation**  
Recognising unnecessary electricity use and selecting energy-saving practices.
- 5 Plants, Animals and Habitats**  
Understanding everyday actions that protect local living things and their surroundings.

## LEARNING OUTCOME

Students will identify environmental problems in familiar situations, compare conservation methods and select actions that reduce waste and protect resources.

## BILINGUAL SAMPLE QUESTION • Q04

## Saving Water at School

## ENGLISH

During a school cleanliness activity, students notice that a tap is left running even when nobody is using it. The tap releases 2 litres of water every minute. A student closes the tap for 5 minutes while it is not needed. How much water does this action save?

## HINDI

विद्यालय में स्वच्छता गतिविधि के दौरान विद्यार्थी देखते हैं कि एक नल बिना उपयोग के खुला हुआ है। उस नल से हर मिनट 2 लीटर पानी बहता है। एक विद्यार्थी आवश्यकता न होने पर नल को 5 मिनट के लिए बंद कर देता है। इससे कितना पानी बचता है?

**A** 5 litres  
5 लीटर

**B** 7 litres  
7 लीटर

**C** 10 litres  
10 लीटर

**D** 12 litres  
12 लीटर

## SECTION C / Logical Reasoning and Decision Making

10 QUESTIONS • 20 MARKS

SKILL AREA 05 / 05 QUESTIONS / 10 MARKS

# Logical Reasoning

Using clues, conditions and rules

## CHAPTERS / TOPICS AND COVERAGE

- 1 Number and Shape Patterns**  
Recognising predictable patterns in meaningful arrangements.
- 2 Classification and Grouping**  
Organising objects or information according to stated properties.
- 3 Ordering and Arrangements**  
Applying clues to arrange objects, activities or people in a particular order.
- 4 Directions and Routes**  
Following directions and interpreting positions in practical situations.
- 5 Rules and Logical Conclusions**  
Applying simple if-then rules and identifying conclusions supported by stated conditions.

## LEARNING OUTCOME

Students will use logical patterns, stated rules and positional clues to organise information, solve arrangements and make justified conclusions.

## BILINGUAL SAMPLE QUESTION • Q05

## Arranging Books for a School Exhibition

## ENGLISH

Four books—Science, Mathematics, English and Hindi—must be placed in a row on a display shelf. The teacher gives the following instructions:

- Science must be immediately to the left of Mathematics.
- English must be immediately to the right of Mathematics.
- Hindi must be at the far right.

Which book will be second from the left?

## HINDI

विद्यालय की प्रदर्शनी में विज्ञान, गणित, अंग्रेज़ी और हिंदी की चार पुस्तकों को एक शेल्फ पर एक पंक्ति में रखना है। शिक्षक निम्नलिखित निर्देश देते हैं:

- विज्ञान की पुस्तक गणित की पुस्तक के ठीक बाईं ओर होनी चाहिए।
- अंग्रेज़ी की पुस्तक गणित की पुस्तक के ठीक दाईं ओर होनी चाहिए।
- हिंदी की पुस्तक सबसे दाईं ओर होनी चाहिए।

बाईं ओर से दूसरे स्थान पर कौन-सी पुस्तक होगी?

**A** Science  
विज्ञान

**B** Mathematics  
गणित

**C** English  
अंग्रेज़ी

**D** Hindi  
हिंदी

## SECTION C / Logical Reasoning and Decision Making

10 QUESTIONS • 20 MARKS

SKILL AREA 06 / 05 QUESTIONS / 10 MARKS

# Decision-Making

Choosing feasible actions for a clear goal

## CHAPTERS / TOPICS AND COVERAGE

- 1 Goal Setting**  
Identifying the main purpose of an activity or decision.
- 2 Prioritising Important Tasks**  
Distinguishing necessary activities from optional ones.
- 3 Choices Within Constraints**  
Selecting feasible options under a stated time, money or quantity limit.
- 4 Planning and Sequencing**  
Arranging activities in the correct order to complete a goal.
- 5 Revising Decisions**  
Changing a plan appropriately when new information becomes available.

## LEARNING OUTCOME

Students will recognise goals, compare options, respect stated constraints, organise tasks and choose practical solutions.

## BILINGUAL SAMPLE QUESTION • Q06

## Preparing Before the School Bus Arrives

## ENGLISH

Aarav has 20 minutes before his school bus arrives. He must finish a worksheet that takes 12 minutes and pack his lunch, which takes 5 minutes. Decorating his notebook would take another 10 minutes, but it is optional. Which plan will allow Aarav to complete both compulsory tasks before the bus arrives?

## HINDI

आरव की स्कूल बस आने में 20 मिनट बाकी हैं। उसे एक वर्कशीट पूरी करनी है, जिसमें 12 मिनट लगेंगे, और अपना लंच पैक करना है, जिसमें 5 मिनट लगेंगे। कॉपी सजाने में 10 मिनट और लगेंगे, लेकिन यह आवश्यक नहीं है। कौन-सी योजना आरव को बस आने से पहले दोनों आवश्यक कार्य पूरे करने में मदद करेगी?

- A** Decorate the notebook first, then finish the worksheet.  
पहले कॉपी सजाए, फिर वर्कशीट पूरी करें।
- B** Finish the worksheet and pack lunch, leaving notebook decoration for later.  
वर्कशीट पूरी करें और लंच पैक करें, कॉपी सजाने का काम बाद में करें।
- C** Finish the worksheet and decorate the notebook before packing lunch.  
वर्कशीट पूरी करें और लंच पैक करने से पहले कॉपी सजाएं।
- D** Spend all 20 minutes decorating the notebook.  
पूरे 20 मिनट कॉपी सजाने में लगाएं।

## SECTION D / Financial and Entrepreneurial Literacy

10 QUESTIONS • 20 MARKS

SKILL AREA 07 / 05 QUESTIONS / 10 MARKS

# Financial Literacy

Everyday money choices and savings

## CHAPTERS / TOPICS AND COVERAGE

- 1 **Needs and Wants**  
Distinguishing essential purchases from optional purchases in a stated situation.
- 2 **Money and Simple Budgets**  
Managing available money, spending and remaining balances.
- 3 **Shopping and Bills**  
Comparing prices, calculating change and checking simple receipts.
- 4 **Savings and Financial Goals**  
Planning regular savings to achieve a defined goal.
- 5 **Money Safety**  
Recognising safe payment habits and protecting personal financial information.

## LEARNING OUTCOME

Students will make informed spending choices, manage basic budgets, compare prices and plan savings for everyday financial goals.

## BILINGUAL SAMPLE QUESTION • Q07

## Saving for a School Bag

## ENGLISH

Meera wants to buy a school bag costing ₹600. She already has ₹200 in her savings box. She plans to save ₹100 every week and will not spend any of this money on other things. If the price of the bag remains unchanged, after how many weeks will Meera have enough money to buy it?

## HINDI

मीरा ₹600 का स्कूल बैग खरीदना चाहती है। उसके गुल्लक में पहले से ₹200 हैं। वह हर सप्ताह ₹100 बचाने की योजना बनाती है और इस पैसे को किसी अन्य काम में खर्च नहीं करेगी। यदि बैग की कीमत नहीं बदलती, तो मीरा कितने सप्ताह बाद बैग खरीदने के लिए पर्याप्त पैसे जमा कर पाएगी?

**A** 3 weeks  
3 सप्ताह

**B** 4 weeks  
4 सप्ताह

**C** 5 weeks  
5 सप्ताह

**D** 6 weeks  
6 सप्ताह

## SECTION D / Financial and Entrepreneurial Literacy

10 QUESTIONS • 20 MARKS

SKILL AREA 08 / 05 QUESTIONS / 10 MARKS

# Entrepreneurship

Customer needs, costs and improvements

## CHAPTERS / TOPICS AND COVERAGE

- 1 Goods, Services and Customer Needs**  
Understanding products, services and what customers require.
- 2 Materials and Resource Planning**  
Identifying materials, tools and time needed for small student-led activities.
- 3 Costs and Sales**  
Calculating expenses and total sales from a simple activity.
- 4 Profit and Loss**  
Comparing money earned with the total stated cost of an activity.
- 5 Customer Feedback and Improvement**  
Using customer observations and feedback to make better business decisions.

## LEARNING OUTCOME

Students will identify customer needs, plan simple resources, calculate financial outcomes and select improvements based on evidence.

## BILINGUAL SAMPLE QUESTION • Q08

## School Bookmark Stall

## ENGLISH

Students organise a bookmark stall during their school exhibition to raise money for new library books. They spend ₹120 on materials and make 20 bookmarks. During the exhibition, they sell 15 bookmarks for ₹10 each. There are no other expenses. The students want to donate only the profit earned so far, keeping enough money to cover their total cost. How much can they donate now?

## HINDI

विद्यार्थी अपनी विद्यालय प्रदर्शनी में पुस्तकालय के लिए नई पुस्तकें खरीदने हेतु बुकमार्क का स्टॉल लगाते हैं। वे सामग्री पर ₹120 खर्च करके 20 बुकमार्क बनाते हैं। प्रदर्शनी में वे 15 बुकमार्क ₹10 प्रति बुकमार्क की दर से बेचते हैं। कोई अन्य खर्च नहीं है। विद्यार्थी अब तक हुए केवल लाभ को दान करना चाहते हैं और अपनी पूरी लागत की राशि सुरक्षित रखना चाहते हैं। वे अभी कितने रुपये दान कर सकते हैं?

**A** ₹20  
₹20

**B** ₹30  
₹30

**C** ₹120  
₹120

**D** ₹150  
₹150

## CLASS 5 / ACADEMIC REFERENCE

2026–27

# Blueprint & Preparation

Eight syllabus domains organised into four reporting sections.

| Section      | Domain                  | Questions | Marks     |
|--------------|-------------------------|-----------|-----------|
| A            | Practical Mathematics   | 5         | 10        |
| A            | Data Interpretation     | 5         | 10        |
| B            | Applied Science         | 5         | 10        |
| B            | Environmental Awareness | 5         | 10        |
| C            | Logical Reasoning       | 5         | 10        |
| C            | Decision-Making         | 5         | 10        |
| D            | Financial Literacy      | 5         | 10        |
| D            | Entrepreneurship        | 5         | 10        |
| <b>TOTAL</b> |                         | <b>40</b> | <b>80</b> |

## Preparation Guidelines

Prepare the listed concepts from Class 5 and earlier school learning. Questions may use familiar school, home, market, transport, nature and community contexts. Formal algebra, percentage calculations, interest calculations, advanced scientific formulas and advanced business terminology are excluded. Any unfamiliar rules required to answer a question will be supplied in the question.

## SAMPLE QUESTION ANSWER KEY / ACADEMIC REFERENCE

|                |                |                |                |
|----------------|----------------|----------------|----------------|
| Q1<br><b>A</b> | Q2<br><b>C</b> | Q3<br><b>C</b> | Q4<br><b>C</b> |
| Q5<br><b>B</b> | Q6<br><b>B</b> | Q7<br><b>B</b> | Q8<br><b>B</b> |

These eight questions illustrate the intended real-life application format. They are examples, not the full examination paper, and do not determine the final difficulty distribution. Answer key is included for teacher / academic review.

### SWC National Real-World Olympiad 2026–27

Student-facing syllabus content is in English. Sample questions and options are provided in English and Hindi. Prepared for syllabus review and school communication.