FOREST BROOK INTERNATIONAL SCHOOL

Desuri, District Pali (Rajasthan) • Academic Session 2026–27

🪔 DIWALI HOLIDAY HOMEWORK & RBSE BOARD EXAM ASSISTANT 🪔

CLASS 8th (GRADE VIII) • BOARD PATTERN PRACTICE PACKAGE



📋 RBSE BOARD STUDENT IDENTIFICATION PROFILE

STUDENT NAME: _____	**FATHER'S NAME:** _____
CLASS & SECTION: Class 8th (RBSE) - _____	**BOARD ROLL NO:** _____

RBSE BOARD PATTERN EXAM SUBJECT MODULES INCLUDED

📐 Mathematics (Board Standard) | 🔬 Science (विज्ञान) | 🌍 Social Science (सामाजिक विज्ञान)

📝 English Language | 📙 Hindi (हिंदी) | 📜 Sanskrit (संस्कृतम्) | 💻 Computer Science | 🎨 Art & Craft

🌱 **Eco-Friendly Safe Diwali Note:** Celebrate a bright, noise-free, and safe Diwali using earthen diyas. Avoid eco-hazardous crackers and maintain study discipline for upcoming RBSE Board exams.

📐 Mathematics (गणित) - RBSE Board Exam Assistant (Part 1)

SECTION A: Multiple Choice Questions (वस्तुनिष्ठ प्रश्न) - 1 Mark Each

RBSE Q1-Q4

Q1. The additive inverse of the rational number **-7 / 19** is:

(A) 7 / 19 (B) -19 / 7

(C) 19 / 7 (D) -7 / 19

Q2. The sum of all interior angles of a convex quadrilateral is:

(A) 180° (B) 360°

(C) 540° (D) 720°

Q3. What is the multiplicative identity for rational numbers?

(A) 0 (B) -1

(C) 1 (D) None of these

Q4. If **3x - 5 = 13**, then the value of **x** is:

(A) 4 (B) 6

(C) 18 (D) 8

SECTION B: Short Answer Questions (लघूत्तरात्मक प्रश्न) - 2 to 3 Marks

RBSE Q5-Q8

5. **Rational Numbers:** Represent the rational numbers **-3/5**, **2/5**, and **7/5** on a single number line with proper scaling.
6. **Linear Equations in One Variable:** Solve the equation for *x* and verify your answer: `(5x - 3) / 2 = (2x + 7) / 3`
7. **Understanding Quadrilaterals:** Two adjacent angles of a parallelogram are in the ratio **4 : 5**. Find the measure of all four angles of the parallelogram.
8. **Practical Geometry Step-by-Step:** Write the steps of construction for a rhombus *ABCD* whose diagonals are *AC = 6 cm* and *BD = 8 cm*.

📝 Board Exam Word Problem Challenge (3 Marks)

Problem statement: The perimeter of a rectangular Diwali greeting card is 48 cm. If its length is 4 cm more than twice its breadth, find the length and breadth of the card.

Space for steps: Let breadth = b cm, Length = (2b + 4) cm. Perimeter = 2(L + b) = 48 ...

📐 Mathematics (गणित) - RBSE Board Assistant (Part 2)

SECTION C: Long Answer Board Questions (दीर्घ उत्तरीय प्रश्न) - 5 Marks

RBSE Q9-Q10

9. **Mensuration & 3D Solids:** A closed cylindrical oil container used for lighting festival lamps has a base radius of **7 cm** and a height of **20 cm**.
   (i) Find the Total Surface Area of the cylinder. (Take π = 22/7)
   (ii) Find the volume of oil it can hold in cubic centimeters.
10. **Algebraic Expressions & Identities:**
    (a) Factorise completely: $x^2 + 9x + 20$
    (b) Using suitable algebraic identity, evaluate: $(103)^2$ and $(98) \times (102)$.

📊 Section D: Data Handling & Statistics Worksheet (4 Marks)

The given data shows the number of earthen diyas sold by 20 shops in Desuri market during Diwali:
25, 30, 25, 40, 50, 30, 35, 40, 25, 30, 50, 40, 35, 30, 25, 30, 40, 35, 50, 30.

Diyas Sold per Shop	Tally Marks	Frequency (No. of Shops)
25	||||	4
30	|||| |	6
35	|||	3
40	||||	4
50	|||	3

Task: Draw a neat Bar Graph on a separate graph sheet based on the frequency table above.

💡 Quick RBSE Board Formula Sheet:

- Area of Trapezium = $^1/_2 \times (a + b) \times h$
- $(a + b)^2 = a^2 + 2ab + b^2$
- TSA of Cylinder = $2\pi r(r + h)$
- Volume of Cube = a^3

🔬 Science & 🌍 Social Science - RBSE Board Questions

🔬 Science (विज्ञान) - RBSE Board Pattern Questions

Science

1. **Combustion & Flame:** Draw a neat labeled diagram of a candle flame showing its 3 distinct zones (innermost zone, middle zone, outer zone). Explain why the outer zone is the hottest.
2. **Synthetic Fibres & Plastics:** Differentiate between Thermoplastics and Thermosetting plastics with two suitable real-life examples of each.
3. **Microorganisms - Friend & Foe:** Name the bacterium responsible for turning milk into curd. List 3 methods of food preservation used at home during festivals.
4. **Force and Pressure:** Define atmospheric pressure. Why do deep-sea divers wear special protective suits?
5. **Cell - Structure & Functions:** Write two main differences between Plant Cell and Animal Cell. Draw a labeled diagram of a Plant Cell.

🌍 Social Science (सामाजिक विज्ञान) - RBSE Board Questions

SST

1. **History (1857 Freedom Struggle):** What were the major causes of the Revolt of 1857? Mention the role of Rajasthan's freedom fighters (e.g., Awa's Thakur Kushal Singh).
2. **Geography (Resources & Agriculture):** Differentiate between Biotic and Abiotic resources with examples. Name the primary Kharif crops grown in Rajasthan.
3. **Civics (Indian Constitution):** Why does a democratic country need a Constitution? Explain the term 'Secularism' as stated in the Indian Preamble.
4. **Judiciary System:** Explain the hierarchical structure of Courts in India (Supreme Court, High Court, Subordinate Courts).

🗺️ RBSE Map Skill Exercise (5 Marks):

On an outline political map of Rajasthan, locate and label the following districts: **(1) Pali, (2) Udaipur, (3) Jaipur, (4) Jodhpur, (5) Kota.** Paste the map in your SST notebook.

📝 English & 📙 Hindi (हिंदी) - RBSE Board Pattern

📝 English Language & Grammar (RBSE Blueprint)

English

1. **Grammar & Vocabulary:**
   (a) Change into Passive Voice: "The students decorated the school during Diwali."
   (b) Fill in the blanks with correct prepositions (in/at/on/with): He lives ___ Desuri. The festival begins ___ Monday.
   (c) Change into Indirect Speech: She said to me, "Are you going to market?"
2. **Formal Application Writing:** Write an application to the Principal of Forest Brook International School requesting 3 days leave to attend family festival celebrations.
3. **Story Completion (80 Words):** Complete the story with a suitable title: *"Once a woodcutter was cutting wood near a river... his iron axe fell into water..."*

📙 हिंदी भाषा एवं व्यावहारिक व्याकरण

हिंदी

1. **व्यावहारिक व्याकरण:**
   *(क) निम्नलिखित पदों का संधि-विच्छेद कर संधि का नाम लिखिए: **देवालय, सर्वोदय, नयन**।*
   (ख) 'दीपक' एवं 'अग्नि' शब्द के तीन-तीन पर्यायवाची शब्द लिखिए।
   *(ग) समास विग्रह कीजिए: **राजपुत्र, यथाशक्ति, चौराहा**।*
2. **बोर्ड पैटर्न निबंध लेखन (150 शब्द):** निम्नलिखित विषयों में से किसी एक पर सारगर्भित निबंध लिखिए:
   (1) राजस्थान में दीपावली का त्यौहार | (2) स्वच्छ भारत अभियान और हमारा कर्तव्य | (3) कंप्यूटर का बढ़ता महत्व।
3. **पत्र लेखन:** अपने छोटे भाई को दीपावली पर पटाखों से दूर रहने तथा सुरक्षित त्यौहार मनाने की सलाह देते हुए एक पत्र लिखिए।

📌 RBSE बोर्ड परीक्षा निबंध संकेत बिंदु (Key Outlines):

1. प्रस्तावना (Introduction) • 2. त्यौहार का ऐतिहासिक/सांस्कृतिक महत्व • 3. मनाने की विधि • 4. समाज पर प्रभाव/सुरक्षा • 5. उपसंहार (Conclusion)

📜 संस्कृतम्, 💻 Computer, 🎨 Art & Final Sign-Off

📜 संस्कृतम् (Sanskrit - RBSE Board Standard)

संस्कृत

1. **संधि कार्यम्:** *(क) विद्या + आलयः* = _____ | *(ख) सूर्य + उदयः* = _____
2. **शब्द/धातु रूप:** 'अस्मद्' शब्द रूप (प्रथमा एवं द्वितीया विभक्ति) तथा 'स्था' (तिष्ठ्) धातु रूप (लट् लकार) लिखिए।
3. **श्लोक लेखनम्:** अपनी पाठ्यपुस्तक से कोई दो कंठस्थ संस्कृत श्लोक अर्थ सहित लिखिए।
4. **संस्कृत अनुवाद:** (क) राम पुस्तक पढ़ता है। (ख) हम सब विद्यालय जाते हैं। (संस्कृत में अनुवाद कीजिए)

💻 Computer Science & IT Skills

ICT

1. Define Networking types: LAN, MAN, and WAN with diagrams.
2. What is E-Commerce? List 3 safety precautions while using digital payment apps during Diwali.
3. Write HTML tags used to create a numbered list and insert an image in a webpage.

🎨 Art, Craft & Creative Work

Art

1. **RBSE Drawing Sheet Activity:** Prepare a 1/4th size chart paper poster on *"Say No to Crackers - Save Environment"* with slogans.
2. **Craft Work:** Make a decorative wall hanging (Toran) using paper flowers and mirrors for Diwali decoration.

📅 Class 8 RBSE Study Planner & Progress Log

Date	Subject Studied	RBSE Questions Solved	Study Hours	Parent's Sign
Day 1	Mathematics (Section A & B)	8 Questions	2.5 Hours	_____
Day 2	Mathematics (Section C & D)	5 Long Problems	3.0 Hours	_____
Day 3	Science / SST Map	All Questions + Map	2.5 Hours	_____
Day 4	English / Hindi Grammar	Grammar + Essay	2.0 Hours	_____
Day 5	Sanskrit / Computer / Art	Shlokas + Poster	2.0 Hours	_____

Declaration by Parent: I confirm that my ward has completed the RBSE Board Class 8 Diwali homework package independently under proper supervision.

_____ **Date: _____ / _____ / 2026** _____

Parent's / Guardian's Signature **Class Teacher / Examiner Sign**