

# ST. XAVIER'S SCHOOL, DORANDA

## SYLLABUS - 2022-23

### CLASS VIII

#### ENGLISH LANGUAGE

MONTH	CHAPTERS
APRIL	<ul style="list-style-type: none"><li>● Same words used in different parts of speech</li><li>● Figures of speech – personification, metaphor, alliteration, hyperbole, oxymoron, rhetoric question, onomatopoeia, metonymy, repetition, simile, pun</li></ul>
MAY	<ul style="list-style-type: none"><li>➤ Conjunctions and its types – coordinating and sub ordinating</li><li>➤ Letters – formal &amp; informal</li><li>➤ <b>UNIT TEST</b></li></ul>
JULY	<ul style="list-style-type: none"><li>➤ Précis writing</li><li>➤ Phrases</li><li>➤ Phrases and its types</li></ul>
AUGUST	<ul style="list-style-type: none"><li>➤ Simple, Compound and Complex sentences</li><li>➤ Essays – Descriptive, Argumentative, Narrative, Story Writing</li><li>➤ Précis writing (Cont)</li></ul>
SEPTEMBER	<ul style="list-style-type: none"><li>➤ Introduction to Clauses</li><li>➤ <b>FIRST TERM EXAM</b></li></ul>
OCTOBER	<ul style="list-style-type: none"><li>➤ Clauses (Cont)</li><li>➤ Analysis of Complex Sentence</li></ul>
NOVEMBER	<ul style="list-style-type: none"><li>➤ Transformation of Sentences– affirmative to negative &amp; interrogative, use of 'too', degrees of adjective, parts of speech, use of 'hardly/scarcely/barely...when', 'no sooner...than', as soon as</li></ul>
DECEMBER	<ul style="list-style-type: none"><li>➤ Synthesis</li><li>➤ <b>UNIT TEST</b></li></ul>
JANUARY	<ul style="list-style-type: none"><li>➤ Phrasal Verbs</li><li>➤ Synthesis (Cont)</li><li>➤ Transformation of Sentences(Cont)</li></ul>
FEBRUARY	<b>FINAL EXAM</b>

➤ **Project work on PHRASAL VERBS**

Using the given words: look, give, break, bring, carry, take, cut, back, come, throw, fall, go, get, run, keep, make as many phrasal verbs as possible, give meaning of each and make two sentences with each

➤ **Portion for 1<sup>st</sup> Unit Test (May)** - Same words used in different parts of speech, Figures of speech, Conjunctions and its types

- **Portion for 2<sup>nd</sup> Unit Test (Dec)** – Transformation of sentences, Simple, Compound and Complex sentences
  - **Date of Submission of Project** – 8<sup>th</sup> July 2022
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## ENGLISH LITERATURE

MONTH	CHAPTERS
APRIL	<ul style="list-style-type: none"> <li>➤ The Lost Dances of Cranes (Poem)</li> <li>➤ The Adventures of an Understudy (Pose)</li> </ul>
MAY	<ul style="list-style-type: none"> <li>➤ The Narayanpur Incident (Prose)</li> <li>➤ SR – Chap 1 &amp; 2</li> <li>➤ <b>UNIT TEST</b></li> </ul>
JULY	<ul style="list-style-type: none"> <li>➤ Your World (Poem)</li> <li>➤ So what are you, anyway? (Prose)</li> <li>➤ SR – Chap 3 &amp; 4</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>➤ Feathered Friend (Prose)</li> <li>➤ SR – Chap 5 &amp; 6</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>➤ Revision</li> <li>➤ <b>FIRST TERM EXAM</b></li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>➤ Saving the Gharial (prose)</li> <li>➤ The Elephant and the Tragopan (Poem)</li> <li>➤ SR – Chap 7</li> </ul>
NOVEMBER	<ul style="list-style-type: none"> <li>➤ That Little Square Box (Prose)</li> <li>➤ Coming Home to Delhi (Prose)</li> <li>➤ SR Chap - 8</li> </ul>
DECEMBER	<ul style="list-style-type: none"> <li>➤ Marshlands (Poem)</li> <li>➤ <b>UNIT TEST</b></li> </ul>
JANUARY	<ul style="list-style-type: none"> <li>➤ The Three Caskets</li> <li>➤ SR Chap – 9 &amp; 10</li> </ul>
FEBRUARY	<ul style="list-style-type: none"> <li>➤ <b>FINAL EXAM</b></li> </ul>

- **Project Work – BIRDS AND TREES : OUR FRIENDS**
  - ❖ Extinction of Flora & Fauna
  - ❖ Deforestation
  - ❖ Causes & Remedies
- **Portion for 1<sup>st</sup> Unit Test (May)** – The lost dances of cranes (Poem), The Adventures of an understudy (Prose)
- **Portion for 2<sup>nd</sup> Unit Test (Dec)** - Saving the Gharial (Prose), The Elephant and the Tragopan (Poem)

**Date of Submission of Project** – 8<sup>th</sup> July 2022

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# MATHEMATICS

## **TOPIC FOR PROJECT WORK:**

Introduction to Plane Figures (Square, Rectangle, Parallelogram, Trapezium & Rhombus)

## **TOPICS FOR 1<sup>ST</sup> UNIT TEST:**

01. Square and Square Roots.

02. Cube and Cube Roots.

03. Fundamental Concepts in Algebra.

(Addition, Subtraction, Multiplication, Division and Simplification)

## **TOPICS FOR FIRST TERM ASSESSMENT TEST:**

1. Fundamental Concepts In Algebra:  
Addition, Subtraction, Multiplication, Division, Simplification
2. Identities / Expansions In Algebra  
Expansions of Binomials and Trinomials
3. Square & Square Roots  
Factor Method, Long Division Method
4. Cube & Cube Roots  
Factor Method
5. Exponents  
Rules, Applications
6. Simple Interest (Excluding Compound Interest)  
Discussions related to principal, rate, time and amount.
7. Percentage  
Discussions followed by practice sessions
8. Profit, Loss and Discount (Excluding VAT and Tax)  
Discussions followed by practice sessions

## **TOPICS FOR SECOND TERM ASSESSMENT TEST:**

1. Factorization  
Grouping, square of terms, Middle term splitting
2. Linear Equations  
Discussions related to solving equations, word problems
3. Area of Trapezium and Polygon(Excluding Circle)  
Square, Rectangle, Rhombus, Trapezium, Parallelogram
4. Pie Chart, Bar Graph, Histogram and Frequency Polygon

Discussions followed by practice sessions

Construction of Special Triangles

Sum of sides, Difference of sides, Perimeter

5. Sets

Types of sets, Operations involving sets, Venn Diagrams

6. Probability

Discussions followed by practice sessions

7. Congruency

Discussions of different postulates, selected questions to be discussed by subject teacher

**TOPICS FOR 2<sup>nd</sup> UNIT TEST:**

01. Expansion.

02. Factorization.

03. Simple Interest (Excluding C.I.)

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# PHYSICS

## FIRST TERM

1. **Matter**:-Characteristics of matter, State of matter,Change of State, Melting, Boiling, Evaporation, Sublimation,
2. **Physical Quantities**:- Density, Relative Density, Floating and sinking, Principle of floatation, Numericals
3. **Force and pressure**:-Force, factors affecting the turning of a body, Moment of force,Pressure,Thrust,Effect of thrust,Factors affecting Pressure,Example of Pressure in our Daily life,Liquid Pressure,Factors affecting Liquid Pressure,Consequences of Liquid Pressure,Atmospheric Pressure,Standard value of Atmospheric Pressure, and Numericals.
4. **Energy**:-Work,Energy, potential Energy,Kinetic Energy,Conversion of Potential Energy into the Kinetic energy,Different forms of Energy,Powwer,Numericals

## First term unit test

1. **Matter**:-Characteristics of matter, State of matter,Change of State, Melting, Boiling, Evaporation, Sublimation,
2. **Physical Quantities**:- Density, Relative Density, Floating and sinking, Principle of floatation, Numericals

## FINAL TERM

5. **Light Energy**:- Refraction of Light,Some Terms related to Refraction, Laws of Refraction ,Effects of Refraction,Spherical Mirrors,Term related to a Spherical Mirror,Focus and Focal Length,Ray Diagrams by concave and convex mirror,uses of spherical mirror
6. **Heat Transfer**:- Introduction ,Effect of heat,Temperature, Evaporation,Boiling,Thermal expansion, Variation of Density with Temperature,
7. **Sound**:- Introduction, Propagation of sound in air, Terms related to wave, Representation of a wave, Characteristics of sound, Units, Loudness, pitch and Quality,Numericals
8. **Electricity**:-House hold Electricity,Fuse, Electric meter, Power Rating of Appliances Hazards of Electricity,Precautions to be taken while using Electricity, static Electricity, Kinds of electric charges, Conservation of charge, conductors and insulators, Methods of charging conductors, Electroscopes,Pith ball and gold leaf, Atmospheric Electricity, lightning,Lightning conductors,

## Second Unit Test:-

**Light Energy**:- Refraction of Light,Some Terms related to Refraction, Laws of Refraction ,Effects of Refraction,Spherical Mirrors,Term related to a Spherical Mirror,Focus and Focal Length,Ray Diagrams by concave and convex mirror,uses of spherical mirror

**Heat Transfer**:- Introduction ,Effect of heat,Temperature, Evaporation,Boiling,Thermal expansion, Variation of Density with Temperature,

## Months wise break up

**April:-** 1. Matter:-Characteristics of matter, State of matter,Change of State, Melting, Boiling, Evaporation, Sublimation

**May :-**2. Physical Quantities:- Density, Relative Density, Floating and sinking, Principle of floatation, Numericals

**June :-**3. Force and pressure:-Force, factors affecting the turning of a body, Moment of force,Pressure,Thrust,Effect of thrust,Factors affecting Pressure,Example of Pressure in our Daily life,

**July:-** Liquid Pressure,Factors affecting Liquid Pressure,Consequences of Liquid Pressure,Atmospheric Pressure,Standard value of Atmospheric Pressure, and Numericals

**August:-**4. Energy:-Work,Energy, potential Energy,Kinetic Energy,Conversion of Potential Energy into the Kinetic energy,Different forms of Energy,Powwer,Numericals

**September:-** Revision

**October:-** 5. Light Energy:- Refraction of Light,Some Terms related to Refraction, Laws of Refraction ,Effects of Refraction,Spherical Mirrors,Term related to a Spherical Mirror,Focus and Focal Length,Ray Diagrams by concave and convex mirror,uses of spherical mirror

**November:-** 6. **Heat Transfer:-** Introduction ,Effect of heat,Temperature, Evaporation,Boiling,Thermal expansion, Variation of Density with Temperature,

**December** 7. **Sound:-** Introduction, Propagation of sound in air, Terms related to wave, Representation of a wave, Characteristics of sound, Units, Loudness, pitch and Quality,Numericals

**January:-** 8. **Electricity:-**House hold Electricity,Fuse, Electric meter, Power Rating of Appliances Hazards of Electricity,Precautions to be taken while using Electricity, static Electricity, Kinds of electric charges, Conservation of charge, conductors and insulators, Methods of charging conductors, Electroscope,Pith ball and gold leaf, Atmospheric Electricity, lightning,Lightning conductors,

**February:-** Revision

**PROJECT:-Make a power point presentation on the Topic" Force and Pressure"**

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# **BIOLOGY**

<b>FIRST TERM</b> (April – mid September)	<b>FINAL TERM</b> (October-mid February)
*Transport in Plants *Reproduction in Plants *Ecosystems *Endocrine System and Adolescence *The Circulatory System	*Nervous System *Reproduction in Humans *Diseases and First Aid *Food Production

## **FIRST TERM (APRIL-SEPTEMBER 2022)**

### **April-May 2022**

#### **1.Transport In Plants**

- Introduction
- The Conducting or Transporting Tissues- Xylem and Phloem
- Transport of Food
- Water absorption by the roots
- Root hair - Characteristics
- Diffusion, Osmosis, Active Transport
- Transpiration - Factors, Importance
- Importance of water and minerals in the plant

#### **2.Reproduction in Plants**

- Reproduction
- Modes of Reproduction In plants
- Asexual Reproduction in Plants
  - Binary Fission, - Budding, - Fragmentation, - Spore Formation, - Vegetative Reproduction
- Natural Vegetative Propagation
  - Reproduction by Stem, Leaf, Root
  - Advantages and Disadvantages of Vegetative Reproduction
- Artificial Vegetative Propagation
  - Cutting, - Layering, - Grafting, - Micro-propagation
- Sexual Reproduction in Plants

- Parts of a Flower
- Pollination –Types, - Agents of cross pollination
- Characteristics of insect, wind and water pollinated flowers
- Fertilisation
- Artificial Pollination

**FIRST UNIT TEST(21 MAY)**  
**SYLLABUS FOR UNIT TEST -**

1. Transport in plants
2. Reproduction in plants

**July - August 2022**

**3. Ecosystems**

- Definition
- Forest Ecosystem
- Components of an ecosystem
- Food chains, Food Webs, Food Pyramids
- Flora and Fauna of forest ecosystem
- Need to restore and conserve ecosystems

**4.Endocrine System and Adolescence**

- Endocrine glands
  - Thyroid gland
  - Adrenal gland
  - Pancreas
  - Pituitary gland
- Adolescence
- Physical changes during adolescence
- Development of sexual and secondary sexual characters during adolescence
- Adolescence and related psychological changes
- Importance of personal hygiene
- Stress - How to manage stress.

**September 2022**

**5.The Circulatory System**

- Human Circulatory system
- Fluids in our Body
- Heart
- Pacemaker



- Blood vessels
- Blood circulation
- Tissue fluid and lymph
- Blood groups
- Heart related conditions



# CHEMISTRY

## Mid Term:

1. Language of Chemistry
2. Chemical changes and reactions

## Unit Test:

Language of Chemistry

## Final Term:

3. Atomic Structure and Chemical Bonding
4. Hydrogen

## Unit Test:

Atomic Structure and Chemical Bonding

## Month wise breakup:

- **April & May** -> Language of Chemistry
  - **July & August** -> Chemical changes and reactions
  - **October & November** -> Atomic Structure and Chemical Bonding
  - **December & January** -> Hydrogen
  - **February** -> Revision
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# HISTORY/ CIVICS

**TOPIC : First Term**

**MONTH & WEEK**

1. Legislature	April 2 <sup>nd</sup> & 4 <sup>th</sup> week
2. Impact of British Policies	May 1 <sup>st</sup> & 2 <sup>nd</sup> week
3. The Indian Renaissance Socio Religious Reforms	May 3 <sup>rd</sup> & 4 <sup>th</sup> week
4. The Great Uprising of 1857	July 1 <sup>st</sup> & 2 <sup>nd</sup> week
5. The Rise of Indian Nationalism	July 3 <sup>rd</sup> , & 4 <sup>th</sup> week
6. Executive	August 1 <sup>st</sup> & 2 <sup>nd</sup> week
<b>7. Revision</b>	August 3 <sup>rd</sup> week

**1<sup>st</sup> Unit Test :**

**1. Legislature**

**First Term examination: All the above mentioned chapters.**

**Final Term :**

1. The American War of Independence	October 2 <sup>nd</sup> , 3 <sup>rd</sup> & 4 <sup>th</sup> week
2. The French Revolution (1789)	November 1 <sup>st</sup> and 2 <sup>nd</sup> week
3. The American Civil War	November 3 <sup>rd</sup> & 4 <sup>th</sup> week
4. The United Nations	December 1 <sup>st</sup> & 2 <sup>nd</sup> week
5. Judiciary	December 3 <sup>rd</sup> week & January 2 <sup>nd</sup> week
<b>Revision</b>	January 3 <sup>rd</sup> week onwards

**2<sup>nd</sup> Unit test :**

**The French Revolution**

**Final Term : All the above mentioned chapters and Executive from the 1<sup>st</sup> Term.**

**Project : The Indian Struggle for Freedom from 1916-1947 special emphasis on the following:**

- i) Emergence Of Mahatma Gandhi
- ii) Jallianwala Bagh Tragedy
- iii) Khilafat Movement
- iv) Non-Co operation Movement
- v) Quit India movement
- vi) Indian Independence and Partition of India.

**Date of Submission: 18.07.2022**

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# **GEOGRAPHY**

## **FIRST TERMINAL EXAM**

### **APRIL+MAY**

#### **A. Representation of Geographical features.**

- I. Types of Maps**
  - a. Based on Size**
  - b. Based on content and purpose(Topographic or Ordinance Survey Maps)**
- II. Locating features with the help of Four-Figure and Six-Figure Grid reference-Eastings, Northings and Grid.**
- III. Scale –Types-Statement/ Verbal, RF and Linear/Graphical.**
- IV. Marking Direction using 8 Cardinal points.**
- V. Contour lines-(Definition, features of contours- CI, VI, HE. How to draw a cross section, some common contour diagrams (Steep slope, Gentle slope, Conical hill, Valley, Plateau, Ridge, Escarpment.) Height-(Triangulated Heights, Spot Height.)**
- VI. Settlement –Types and Patterns**
  - a. Temporary, Permanent, Nucleated, Dispersed, Linear.**
- VII. Drainage Pattern- Dendritic, Radial and Trellised. (Direction of flow of River).**
- VIII. Principals of Map Interpretation-Physical features, Drainage Features, Land use Settlements, Transport and Communication, Occupation of the People)**

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### **JULY**

#### **B. Asia Location and Extent & Physical features.**

- I. Location & Extent**
- II. Physical Divisions(The Northern Lowlands, The Central Highlands, The Southern Plateaus, the Great River Valleys, The Island groups**
- III. Map work-Location and Extent**

### **AUGUST**

#### **C. Asia -Climate, Natural Vegetation and wildlife.**

- I. Climatic conditions in Asia (Summer & Winter) Annual rainfall**
- II. Factors influencing the climate.**
- III. Major Climatic regions of the world.**
  - a. The Equatorial Climate, Vegetation and wild life**
  - b. Tropical Monsoon Climate, Vegetation and Wild life.**
  - c. Hot or Tropical Desert Climate, Vegetation and Wildlife.**
  - d. China Type Climate, Vegetation & wildlife**
  - e. Temperate mid-latitude Desert climate Vegetation & wildlife**

- f. Mediterranean Climate, Vegetation & Wild life
- g. Steppe Climate vegetation & Wild life.
- h. Cool Temperate type of climate, Vegetation& wildlife
- i. The Arctic or the Tundra Type of Climate, Vegetation& wildlife.

**J. Map Work- Natural Regions**

**SEPTEMBER**

**D. Natural Disasters**

- I. Meaning & Types of Disasters
  - a. Floods
  - b. Landslides
  - c. Droughts and Famines
  - d. Cloud-burst
  - e. Tropical cyclones
  - f. Earthquakes (Tsunami)

**FINAL TERMINAL**

**OCTOBER+ NOVEMBER+ DECEMBER**

- E. India- Location, extent and Physical features.(UNIT TEST 2)
- F. India- Climate, Natural Vegetation and Wildlife.
- G. Map Work- Relief Map 1( Mountains And Plateaus)  
Relief Map 2 (Rivers and Plains)

**JANUARY+ FEBRUARY**

- H. Geographical Grids- Latitudes and Longitudes.
  - a. Heat Zones.
  - b. Time (Local, Standard and GMT).
  - c. International Date Line.
  - d. Calculation of Time.
  - e. Great Circle- Uses.

**PROJECT - "RANCHI" AS A SMART CITY.**

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# COMPUTER

## TOPICS TO BE COVERED IN THE MID-TERM

APRIL - MAY	OPERATING SYSTEM. CONCEPTS OF OOP.
UNIT-TEST : OPERATING SYSTEM.	
JULY - AUGUST	INTRODUCTION TO JAVA. PROGRAMS USING ASSIGNMENT. KEYBOARD INPUT USING "BufferedReader". ARITHMETICAL OPERATORS [/ * % + -]
SEPTEMBER	Math.sqrt( ) , Math.pow( ).

### PROJECT : OPERATING SYSTEM.

The Project is to be submitted in the First Week of July.

## TOPICS TO BE COVERED IN THE FINAL-TERM

OCTOBER - NOVEMBER	DECISION-MAKING : if if-else if-else-if
DECEMBER	The "switch-case" Construct.Fallthrough.
JANUARY - FEBRUARY	INTRODUCTION TO NETWORKING. INTRODUCTION TO ROBOTICS. REVISION.

## Class - 8

### HINDI

#### First Term

##### **Section A (40 Marks)**

साहित्य - अंकुरा

व्याकरण - आओ व्याकरण सीखें

भाषा

1. निबंध - प्रदूषण, साक्षरता, स्वतंत्रता दिवस, पानी ही जीवन है, मोबाईल फोन
2. चित्र लेखन
3. पत्र लेखन - क) औपचारिक ख) अनौपचारिक
4. भाव - ग्रहण
5. व्यावहारिक व्याकरण:-

विलोम	-	1-85
पर्यायवाची	-	1-66
वाक्यांश	-	1-53
अनेकार्थी शब्द	-	1-42
युग्म शब्द	-	1-39
मुहावरा	-	1-44
लोकोक्ति	-	1-24
तद्भव से तत्सम	-	संपूर्ण

संज्ञा शब्द से भाववाचक विशेषण, सर्वनाम, क्रिया शब्द को परिवर्तित करें।

##### **Section B (40 Marks)**

साहित्य

1. गंगा की विदाई (कविता)
2. बौद्ध गाथाएँ
3. भारत में मानसून
4. मेरी अपनी दुनिया
5. काबुलीवाला
6. आयु बंधन नहीं

### व्याकरण

1. संधि - परिभाषा, भेद, उदाहरण, संधि-विच्छेद
2. अव्यय - परिभाषा, भेद, उदाहरण, अव्यय के भेद की पहचान एवं उपयोग
3. उपसर्ग - परिभाषा, भेद, उदाहरण, नए शब्द बनाना

### तृतीय पत्र (अंक 100)

1. शब्दार्थ - (20 अंक)
2. वर्तनी - (20 अंक)
3. व्यक्तित्व स्पर्धा - (60 अंक)

### Unit Test -गंगा की विदाई, बौद्ध गाथाएँ, व्यावहारिक व्याकरण

परियोजना कार्य -राष्ट्र के प्रति विद्यार्थियों का कर्तव्य

### 2<sup>nd</sup> Term

#### Section A (40 Marks)

साहित्य - अंकुश

व्याकरण - आओ व्याकरण सीखें

#### भाषा

1. निबंध -शिक्षक दिवस, समाचार पत्र, स्वावलम्बन, मित्रता, फास्ट फूड
2. पत्र लेखन - क) औपचारिक ख) अनौपचारिक
3. भाव ग्रहण
4. चित्र लेखन
5. व्यावहारिक व्याकरण

विलोम	-	86-170
पर्यायवाची	-	67-135
वाक्यांश	-	54-107
अनेकार्थी शब्द	-	43-84
युग्म शब्द	-	40-79
मुहावरा	-	45-89
लोकोक्ति	-	25-47
तद्भव से तत्सम	-	संपूर्ण
संज्ञा से भाववाचक एवं विशेषण बनाना		



## Section B (40 Marks)

### साहित्य

1. परीक्षा
2. मीरा पदावली (कविता)
3. नीलकण्ठ
4. बैजू बावरा
5. फास्ट फूड की संस्कृति
6. बौद्ध गाथाएँ

### व्याकरण

1. वाच्य- परिभाषा, भेद, उदाहरण, रूपांतरण
2. समास- परिभाषा, भेद, उदाहरण। द्विगु और द्वंद्व में अंतर एवं बहुव्रीहि और कर्मधारय में अंतर। संधि एवं समास में अंतर, समस्त पद। सामासिक पद बनाना, समास विग्रह

### तृतीय पत्र

- |                       |   |        |
|-----------------------|---|--------|
| 1. वर्तनी             | - | 20 अंक |
| 2. शब्दार्थ           | - | 20 अंक |
| 3. व्यक्तित्व स्पर्धा | - | 60 अंक |

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