



**BROCELLE SCHOOL**

# **Learning Foundations**

**Grade 7 Curriculum Overview**

**2025**

# Welcome Note

Dear Students and Parents,

Welcome to Grade 7! This year is designed to inspire curiosity, critical thinking, and a deeper understanding of core academic subjects. This booklet outlines the subjects, topics, and learning objectives for the academic year, helping you stay informed and prepared for success. Let's make learning an exciting journey together!



# Mathematics

## Core Subjects

### Topics

- Integers and Rational Numbers
- Algebraic Expressions and Equations
- Geometry: Angles, Triangles, and Circles
- Data Handling and Probability
- Ratios and Proportions

Mathematics builds problem-solving and analytical thinking skills essential for daily life and future studies. Grade 7 emphasizes practical applications of math concepts, empowering students to approach challenges logically and confidently.

## Learning Objectives

1. Master operations with integers and rational numbers.
2. Solve linear equations and inequalities.
3. Develop an understanding of geometric properties and theorems.
4. Interpret data using graphs and calculate probabilities.

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# Science

## Core Subjects

Science sparks curiosity about the natural world, encouraging exploration and innovation. Through hands-on experiments and projects, students gain a foundational understanding of biology, physics, and earth sciences, fostering critical thinking and scientific literacy.

## Topics

- **Life Science:** Cells, Tissues, and Organ Systems
- **Physical Science:** Forces and Motion, Energy Forms
- **Earth Science:** Weather, Climate, and the Water Cycle
- **Environmental Science:** Sustainability and Ecosystems

1. Understand the structure and functions of cells and human organ systems.
2. Explain Newton's laws of motion and energy conservation.
3. Analyze weather patterns and their global impact.
4. Develop solutions for environmental sustainability challenges.

## Learning Objectives



# English Language Arts

## Core Subjects

Language Arts develops communication, creativity, and analytical skills through reading, writing, and critical thinking. Students engage with diverse texts, refining their ability to express ideas clearly and persuasively.

### Topics

- **Literary Analysis:** Poetry, Prose, and Drama
- **Writing Skills:** Essays, Creative Writing, and Reports
- **Grammar:** Sentence Structures, Tenses, and Punctuation
- **Research:** Sources, Citations, and Presentations

### Learning Objectives

1. Master operations with integers and rational numbers.
2. Solve linear equations and inequalities.
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# Social Studies

## Core Subjects

Social Studies connects the past, present, and future, helping students understand societal structures and global relationships. This subject fosters informed citizenship and an appreciation for cultural diversity and history.

## Topics

- **World Geography:** Maps, Regions, and Resources
- **History:** Ancient Civilizations to the Middle Ages
- **Civics:** Government Systems and Civic Responsibilities
- **Economics:** Trade, Resources, and Economic Systems

## Learning Objectives

1. Understand the geographical distribution of resources and populations.
2. Explore key historical events and their global influence.
3. Explain the role of governments and citizens in society.
4. Analyze the basics of economic systems and trade.



# Physical Education

## Subjects

Physical Education promotes health, teamwork, and discipline. Activities are designed to improve physical fitness while instilling the importance of mental wellness and healthy lifestyle choices.

## Topics

- **Team Sports:** Soccer, Basketball, Volleyball
- **Fitness:** Aerobics, Strength Training, Flexibility
- **Health Education:** Nutrition and Mental Wellness

## Learning Objectives

1. Build teamwork and leadership skills through sports.
2. Understand the importance of regular physical activity.
3. Develop strategies for maintaining mental and physical health.



# Art and Design

## Subjects

Art and Design nurture creativity and self-expression. Through traditional and digital mediums, students learn to translate ideas into visuals while exploring the history of art and design evolution.

### Topics

- Drawing and Painting Techniques
- Introduction to Digital Art
- Art History: Movements and Influences

### Learning Objectives

1. Create art using various mediums and techniques.
2. Understand key artistic movements and their impact on modern design.



# Technology & Computer Science

## Core Subjects

### Topics

- Coding Basics: HTML, CSS, and Python
- Digital Citizenship: Online Safety and Etiquette
- Robotics and Problem Solving

This subject introduces problem-solving using technology, equipping students with coding skills and promoting responsible digital citizenship in an increasingly tech-driven world.



### Learning Objectives

1. Write simple programs and design basic web pages.
2. Understand the ethics of digital engagement.
3. Build and program basic robotic models.

# Assessment Overview

Assessments are designed to track progress and ensure mastery of concepts. Through a blend of quizzes, tests, and projects, students receive constructive feedback and opportunities for improvement.

## Formative Assessments

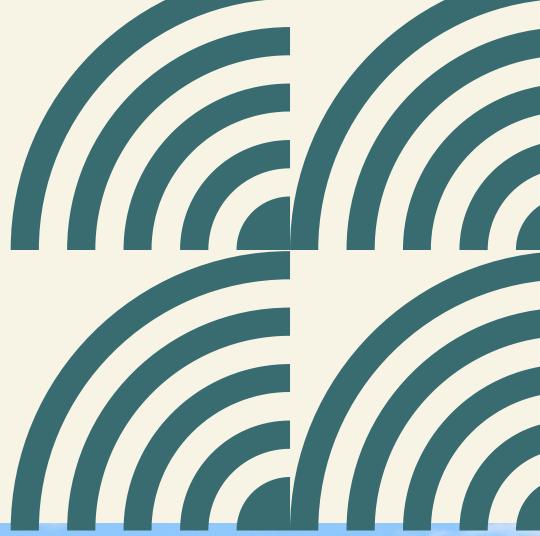
Regular quizzes, class participation, and projects.

## Summative Assessments

End-of-unit tests and final examinations.

## Skill Development

Grading includes critical thinking, collaboration, & communication.



# Co-Curricular Activities

Co-curricular activities complement academic learning by nurturing personal growth and teamwork. Students can explore diverse interests through clubs, events, and workshops to build well-rounded skill sets.

## Clubs

Science Club,  
Debate Team, Art  
Club

## Events

Annual Science  
Fair, Literature  
Week, Sports Day

## Workshops

Leadership  
Development,  
Public Speaking,  
and First Aid



# Parental Support Tips

Parents play a crucial role in a child's educational success. Supporting a regular study routine, fostering curiosity, and maintaining open communication with teachers are vital steps for academic and personal growth.



# Contact Information

For additional information or inquiries,  
please reach out to us.



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