



THE JOY OF LEARNING

Grade 7

Learning Experience



**EKYA
SCHOOLS**

We at Ekya believe in a world beyond boundaries where education should continuously evolve and adapt as the world changes.

Ekya is a community of children, educators and parents where everyone learns together. At Ekya, our students find their purpose, passion and community to make a difference in the world.

FIND New Ways to Learn

Our innovative learning model goes beyond conventional norms. We apply interdisciplinary skills to think differently and solve real-world problems. We equip students with skills such as problem-solving, collaboration, critical thinking, reflection and global awareness.

Students engage in authentic tasks and challenges to investigate each learning area deeply and transfer their learning to new situations.

For example, to apply their learning of advanced writing skills in the Language Program, students assume the role of a critique and write a movie review for a magazine. In Science, students use the reverse engineering process, designing/mimicking the floral parts to create useful products for humankind to apply their learning to the real world.

English

The English Program provides a strong foundation for learners to build essential skills like reading, writing, listening and speaking, using sources like fiction, nonfiction and poetry.

The Love To Read Program in the English Curriculum ensures students develop a lifelong habit of reading and become confident readers through deep discussions about books.

Core Concepts and Skills

- Concepts related to Fiction, Nonfiction and Poetry
- Key Grammar concepts
- Decoding, Interpreting and representing information
- Reciting and expressing
- Predicting, reading and retelling
- Comprehension and communicating in multiple ways
- Collaborating and presenting
- Writing using conventions

Second Language Hindi / Kannada

The Second Language Program enables students to use languages, participate and communicate in linguistically and culturally diverse contexts

Students apply their learning to real-world contexts; for example, they create a newsletter and write about different topics using advanced writing skills.

Core Concepts and Skills

- Concepts related to fiction, Non-fiction and Poetry
- Key Grammar concepts and vocabulary
- comprehension (Reading/Writing)
- Listening and speaking skills- sharing and responding to ideas, and discussions
- Reading, reciting and expressing opinions

Third Language

The Third Language Program builds a strong foundation in developing essential skills while learning an additional language.

The program build basic communication, reading, and writing skills throughout the year.

Core Concepts and Skills

- Foundational concepts of the language
- Key grammar concepts and vocabulary
- Broad writing skills- writing 2,3 and 4 letters words and simple sentences; descriptive writing
- Broad reading skills-use strategies to read words and simple texts; predict the context and meaning of short stories and poems
- Listening and speaking skills- share and respond to ideas and instructions





Mathematics

The Mathematics Program builds on the foundational concepts and skills acquired in earlier grades and introduce students to more advanced topics. The curriculum includes a range of mathematical concepts, such as algebraic expressions.

The curriculum comprises experiences that exercise creativity and imagination while discovering geometric vocabulary and relationships using simple tools. Students are encouraged to find many different ways to solve problems. They also use alternative algorithms and strategies to solve a problem. To apply their learning, students engage in complex tasks they may face in the real world; for example, students conduct a food survey, collect data, create and analyse the graphical representation and write inferences from it.

Core Concepts and Skills

- Number systems - rational numbers, Integers, fractions, Decimal numbers
- Commercial arithmetic
- Symmetry
- Nets of solids
- Algebraic expressions
- Linear equations
- Regular and irregular figures
- Statistical graphs
- Mathematical thinking and problem solving
- Thinking strategically
- Visualising and representing
- Reasoning and justifying



Science

The science program focuses on developing an in-depth understanding of content and building essential scientific skills like communication, collaboration, inquiry, and problem-solving. It integrates key scientific practices: developing and using models and systems, conducting investigations, and analysing data.

Students will use scientific and engineering processes, protocols, and tools, including inquiry, to build an understanding of structures, patterns, and relationships explained throughout this course.

Core Concepts and Skills

- Periodic table and bonding
- Acids and bases
- Energy transfer and energy in ecosystems
- Electricity
- Photosynthesis and respiration in Plants
- Biomimicry and sustainable design
- Using models
- Planning and carrying out investigations
- Analysing and interpreting data
- Computational thinking
- Arguing from evidence
- Communicating information



Social Science

In the Social Science Program, students explore disciplines like History, Civics and Geography. Students will develop a deeper understanding through learning key concepts, including significance; continuity and change; cause and effect; place and space; interconnections; roles, rights and responsibilities; and perspectives and action.

In history, students will learn about the rise of the Delhi Sultanate and Vijaynagar empire in India and the ottoman empire in world history. The geography theme for the year is 'water in the world,' which explores the uses, forms, and scarcity of water, with case studies from India and other cities around the world. In civics, students learn about the three branches of the government and how the legal system works in India, a secular, multi-faith nation.

Core Concepts and Skills

- Medieval empires from India and the world (History)
- Water and its varied role in our lives (Geography)
- Key institutions of the government (Civics)
- Questioning
- Researching
- Analysing
- Evaluating and reflecting
- Communicating



Computer Science

In the Computer Science Program, students analyse the use of creative commons licences, get an introduction to electronics and create animations and websites.

To apply their learning and skills and solve real-world problems, for example, students build a program that tracks a small business's total sales and cost. They complete a year-end design thinking project to showcase the application of skills.

Core Concepts and Skills

- Digital citizenship- creative commons license
- Components in electronics
- Building circuits
- HTML
- Python
- Design thinking project
- Problem-solving
- Collaborate and communication
- Pattern recognition
- Creating, testing, debugging and modifying
- Communicating



Visual Arts

Visual Arts Program focuses on observational drawings, elements of Art and Design, Idea generation and translation through a variety of art and design skills.

The students are encouraged to explore different dimensions of art, use different media, and develop drawing skills to translate their ideas.

Core Concepts and Skills

- Traditional art and design skills
- Drawing and painting with wet and dry media
- Elements and principles of art and design
- Drawing as a thinking tool
- Ideation and expression
- Translation of an idea from 2D to 3D
- Motor skills
- Observation and reading



Life Skills

The Life Skills Program is based on the socio-emotional and ethical learning framework. The curriculum focuses on cultivating positive emotional regulation, self-compassion, and interpersonal skills to improve academic progress and personal well-being.

Student learning is organised into three dimensions: Awareness, Compassion and Engagement.

Core Concepts and Skills

- Kindness and compassion for self and others
- Building resilience
- Self-regulation
- Interpersonal Awareness for self and others
- Relationships
- Understanding interdependence
- Recognising common humanity
- Community engagement

Performing Arts

The Performing Arts Program empowers students to recognise patterns, identify rhythm and become familiar with creating and performing a sequence of movements through dance, theatre and music.

The curriculum stresses self-exploration and discovery while instilling within students a respect for the art and the artist and providing students with tools they may use to unleash their creative and unique voice through the disciplines.

Core Concepts and Skills

- Body and movement
- Movement and rhythm
- Explore and express emotions
- Spatial awareness
- Verbal and non-verbal communication
- Collaboration

Physical Education

The Physical Education Program aims to instil a sense of personal responsibility for lifelong health and fitness. The two key strands of the curriculum are strength and conditioning, skills and sportsmanship.

Strength and Conditioning includes training for a wide range of exercises that focus on mind, mobility, stability, strength, endurance, power, speed, agility and performance. **Skills and sportsmanship** includes a variety of sports and skill-building activities. The program incorporates attitude and behaviour to positively impact a student's overall development.

Core Concepts and Skills

- Safety, health and nutrition
- Sports and exercise
- Motor skills, Movement and strategies
- Collaboration
- Sportsmanship

