FIND

THE JOY OF LEARNING

Grade 9

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, In the English Language curriculum, students collaborate to rewrite a short story as a play focusing on using dialogues to develop experiences and characters. Similarly, in Physics, students study the AirBag Technology in Light Passenger Vehicles and design solutions to reduce the rate of injuries during car crashes. In Chemistry, students use scientific inquiry methodology to explore the applications of latent heat in real life.

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 • Comprehensioning (Reading/Writing) • Listening and speaking skills- sharing and responding to ideas, and discussions • Reading, reciting and expressing opinions • Writing in a variety of forms

English

The English Program helps students develop skills and understanding in reading, writing, speaking and listening as well as an appreciation for literature and language.

The program covers a wide range of topics, including grammar, vocabulary, composition, and literary analysis. Students learn how to analyse and interpret literary works, and how to express their ideas and opinions in a clear and persuasive manner. The program emphasises the development of critical thinking skills, encouraging students to question assumptions and consider multiple perspectives. They learn how to analyse complex texts and make informed judgments about the meaning and significance of literary works.

Core Concepts and Skills
• Reading resources, including a range of Fiction genres • Poetry and play scripts • Non-Fiction texts • Communication and presentation • Language skills for social and academic purposes • Reasoning, interpretation and inference • Writing on a variety of topics for different audiences and purposes • Self-learning

Science - Physics, Chemistry, Biology

The Science Program aims to develop a sense of wonder and curiosity about the cosmos, subatomic world and living systems to make students "science aware". Students develop scientific temperament by cultivating a mindset of interest, curiosity and scientific inquiry.

Students engage in scientific practices such as building and investigating models, systems, and theories to understand themselves and the world better. They explore concepts through hands-on laboratory work. They formulate hypotheses, test them against observations, and draw conclusions after conducting experiments and computer simulations to examine various concepts.

Core Concepts and Skills
• Force and motion • Work and energy • Cell biology • Health and diseases • Natural and food resources • Structure and properties of matter • Matter and interactions • Asking questions and defining problems • Developing and using models • Planning and carrying out investigations • Constructing explanations and designing solutions • Analyzing and interpreting data • Obtaining, Evaluating, and communicating information

Mathematics

The Mathematics Program aims to equip students with a mathematical mindset, problem-solving abilities, skills, processes and metacognition.

Students engage in mathematical discussion and challenges and use essential mathematical skills, knowledge and competencies to apply Math in solving real-world problems. They learn to use mathematical models to make predictions and draw conclusions and communicate their findings effectively to others. The program encourages students to work collaboratively in groups and develop interpersonal skills such as communication, teamwork, and leadership.

Core Concepts and Skills
• Number systems • Algebra • Coordinate geometry • Geometry • Mensuration • Statistics and probability • Problem-solving • Reasoning • Connecting • Communicating • Representing • Reflecting

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Social Science

The Social Science Program equips the students to understand the environment in its totality and develop a broader perspective and an empirical, reasonable and humane outlook. It provides students with a deep understanding of human behaviour and society, as well as the skills needed to conduct research, analyse data, and communicate findings effectively.

The components of the program are History, Geography, Economics and Civics.

Core Concepts and Skills
• French revolution, Socialism in Europe, Russian revolution and Nazism (History) • Physical and climate features of India, drainage, natural vegetation and wild life, population (Geography) • Democracy and democratic rights, Constitutional design, electoral politics(Civics) • Poverty, food security (Economics) • Questioning • Researching • Analysing • Evaluating and reflecting • Communicating

🖥 Computer Science

The Computer Science Program aims to equip students with diverse skills and competencies in various domains such as programming, database management, artificial intelligence and more.

Students arrive at a comprehensive understanding of the technical aspects of computing and skills such as critical thinking, problem-solving, decision making and communication that are necessary to navigate this ever-changing field.

Core Concepts and Skills
• Advanced Python Programming • Database Management Systems (DBMS) • Arduino • Artificial intelligence • Design, create, build, and debug • Problem solving • Collaborating • Communicating • Recognising patterns • Creating, testing, debugging and modifying • Communicating

🔧 Makery

The Makery Program is an innovative educational program that aims to foster creativity, innovation, and collaboration among students. The program is designed to provide students with hands-on experiences in arts, design and engineering.

The program provides students with access to tools and equipment, such as 3D printers, wood cutting tools, design, and art supplies for creative expression and more, which they can use to turn their ideas into tangible prototypes. The makery program provides a collaborative environment where students can work in teams to design and build projects, developing important interpersonal skills such as communication, collaboration, and leadership.

Core Concepts and Skills
• Creating • Collaboration • Curiosity • Observation • Thinking

🧠 Life Skills

The Life Skills Curriculum program is based on a socio-emotional and ethical learning framework.

The curriculum focuses on cultivating positive emotional regulation, self-compassion, and inter-personal 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 • Recognizing common humanity • Community engagement

🏋 Physical Education

The physical education program aims to instil a sense of personal responsibility for lifelong health and fitness. Students engage in a variety of games and sports to learn movement skills and strategies. The two key strands of the curriculum are strength, conditioning, skills and sportsmanship.

Strength and Conditioning includes training for these skills with 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 programs. The program incorporates skills and sportsmanship attitude and behaviour to positively impact a student's overall development and future success.

Core Concepts and Skills
• Safety, health and nutrition • Sports and exercise • Motor skills, Movement and strategies • Collaboration • Sportsmanship