ROOTS INTERNATIONAL INNOVATIVE LEARNING PROGRAMME (RIILP) FORESEES THE FUTURE WHERE TECHNOLOGY BLENDS WITH NATURE CREATING A SEAMLESS FABRIC OF SOCIETY FOR ALL OUR TOMORROW

Roots International Innovative Learning Programme - RIILP
An initiative by
Department of Qualifications Curriculum & Assessments
DQCA, Roots International School

A CREATIVE MULTI-DIMENSIONAL PROGRAM WHICH ENCOMPASSES HOLISTIC DEVELOPMENT OF CHILD'S MIND BY ENGAGING THEM IN HANDS-ON ACTIVITIES

TRANSFORMING TRADITIONAL TEACHING AND LEARNING TO STUDENTS CENTRIC ENVIRONMENT
Dear Parents,

Roots International Schools has initiated a whole new program in its range of academics and curriculums by the name Roots International Innovative Learning Program. Roots International Innovative Learning Program (RIILP) is a creative multi-dimensional program which encompasses holistic development of child’s mind by engaging them in hands-on activities. It describes vision of creative class rooms and suggests consolidated proposal for their implementation. Creative Classrooms are abstracted as innovative learning environments those fully embed the potential of transformed learning and teaching practices in formal, non-formal and informal settings.

Roots International Innovative Learning Program offers a range of subjects that provide students with more challenging environment where they apply systematic approach needed for the sustainable implementation and progressive up scaling of their creative skills. Gelled with the vision of RIS, the imperative innovative learning program is designed to provide every child with an opportunity to master knocks of fast driven ‘learning by doing’ approach which can help him/her stand abreast with whole new spectrum of global learning environment. Children get chance to observe, make inferences, inquire, design and evaluate.

RIILP is a progressive program which has been initiated with the view to transform traditional teaching and learning to student centric environment offers subjects like:

- Nano Technology
- Eco Literacy Initiative
- Food & Nutrition
- Art & Design
- Robotics

These subjects are offered from Montessori to IGCSE keeping in view level of achievable complexities in each grade. This program will also help teachers to redefine their role as a moderator and facilitator of non-conventional 21st Century based teaching and learning environment.

Warm Regards,
CEO Walid Mushtaq
Developmental Benefits of Art & Design

Motor Skills:
Many of the motions involved in making art, such as holding a paintbrush or scribbling with a crayon, are essential to the growth of fine motor skills in young children. Around age four, children may be able to draw a square and begin cutting straight lines with scissors. Art and Design initiatives emphasize the use of scissors because it develops the dexterity children will need for writing.

Language Development:
For very young children, making art—or just talking about it—provides opportunities to learn words for colors, shapes and actions. When toddlers are as young as a year old, parents can do simple activities such as crumpling up paper and calling it a “ball.” By elementary school, RIS students can use descriptive words to discuss their own creations or to talk about what feelings are elicited when they see different styles of artwork.

Decision Making:
Art and Design education strengthens problem-solving and critical-thinking skills. The experience of making decisions and choices in the course of creating art carries over into other parts of life. “If they are exploring and thinking and experimenting and trying new ideas, then creativity has a chance to blossom,” says MaryAnn Kohl, an arts educator and author of numerous books about children's art education.

Visual Learning:
Drawing, sculpting with clay and threading beads on a string all develop visual-spatial skills, which are more important than ever. Parents need to be aware that children learn a lot more from graphic sources now than in the past, where as children need to know more about the world than just what they can learn through text and numbers. Art education teaches students how to interpret, criticize, and use visual information, and how to make choices based on it. Knowledge about the visual arts, such as graphic symbolism, is especially important in helping kids become smart consumers and navigate a world filled with marketing logos.

Inventiveness:
When kids are encouraged to express themselves and take risks in creating art, they develop a sense of innovation that will be important in their adult lives. The kind of people society needs to make it move forward are thinking, inventive people who seek new ways and improvements, not people who can only follow directions. RIS Art and Design is a way to encourage the process and the experience of thinking and making things better!

Roots International Schools believe that by the implementation of Art and Design:
- Your child learns to think creatively with an open mind.
- Your child learns to observe and understand the world and interpret the world.
- Your child learns to express feelings with the use of words.
- Your child practices problem-solving skills, critical-thinking skills, dance, music, theatre and art making skills, language and vocabulary of the arts.
- Your child discovers that there is no one right answer, multiple points of view.
- School becomes fun, playing can be learning.
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Roots International Schools believe that by the implementation of Art and Design:

- Your child learns to think creatively with an open mind.
- Your child learns to observe and describe using his/her own words.
- Your child practices problem-solving skills, critical-thinking skills, dance, music, theatre and art making skills, language and vocabulary of the arts.
- Your child discovers that there is more than one right answer, multiple points of view.
- School is a busy place, playing can be learning.
- Your child learns to collaborate with other children and with adults.
- Arts introduce children to cultures from around the world.
- Your child can blossom and excel in the arts. Even with physical, emotional or learning challenges, children experience success in the arts.
- Arts build self-confidence. Because there is not just one right way to make art, every child can feel pride in his or her original art creations.
- Arts build community. Schools with a variety of differences can celebrate the arts as one community.
Dear Parents,

It is widely known that a healthy, balanced diet is vital for children's growth and development and for their long-term health and well-being. We know also that the school environment can have a significant influence on the health behavior of children, in particular their food choices and well aligned body workout.

Roots realizes importance of healthy diet and has been educating children the importance of balanced diet and a healthy lifestyle, providing healthy and nutritious food choices and giving consistent health messages. RIS is playing an important role in nurturing and sustaining good eating and exercise habits.

RIS has designed a complete curriculum based food and nutrition studies for its students from Mont – Grade III to get complete understanding of what is expected of them as young responsible healthy eating citizens. These habits will design pattern of disciplined eating and will make students practice exercises to keep them physically fit. Students will act more educated while choosing packed food and will be in habit of reading information given on food wrap. Students will get an awareness of healthy eating including options of healthy snacks and liquid intake.

This curriculum will also involve parents and will require them to practically help their child in developing the concept of healthy eating habit. Activities will be aligned to daily routine food intake of child and selection of healthy.

Food! It is essential to life, one of life's greatest pleasures and arguably, a principal cause of disease. The relationship between food and health, which is influenced by the quality and availability of food products and ultimately shaped by consumer choice, makes for a fascinating area of study. Food creates wealth; it is central to health and wellbeing but also raises many consumer concerns - issues of food safety, food security, food quality, diet-related disease and ethical food production.

The merging of scientific, sociological and commercial perspectives provides critical understanding of influences on consumer choice and the impact of complex inter-relationships at all stages of the food supply chain.

By the end of studying this subject the student will be able to:

1. Describe the physical structure and chemical nature of food components and their interactions in food applications.
2. Appreciate the relationship between the composition of food supplies and preparation, processing and food preservation methods used to maintain optimum quality and nutritional value.
3. Describe the range of food products available (both raw material and processed product) within each product category.
4. Appreciate the basis for setting of nutritional guidelines, nutritional surveillance and the appropriate use of a range of dietary assessment methods.
5. Demonstrate safe, competent food handling skills.

A HEALTHY MIND IS A HEALTHY BODY
A balanced diet is a Cookie in each hand.

The greatest threat to our planet is the belief that someone else will save it.

The next 10 years may be more important than the last 10,000 in determining the fate of our oceans.

- **Vegetables** (40%)
  - Leafy Greens
  - Red Cabbage
  - Carrots
  - Red Bell Pepper
  - Broccoli
  - Spinach
  - Kale
  - Onion
  - Cucumber
  - Cauliflower
  - Asparagus
  - Eggplant
  - Zucchini
  - Beets

- **Protein** (30%)
  - Meat (Grass Fed)
  - Eggs
  - Wild Salmon
  - Beef
  - Venison
  - Chicken
  - Turkey

- **Healthy Fat** (15%)
  - Avocado
  - Raw Dairy
  - Flax Seeds
  - Pumpkin Seeds
  - Almonds
  - Pecans
  - Cashews
  - Coconut Milk

- **Carbs** (15%)
  - Fruit
  - Blueberries
  - Raspberries
  - Strawberries
  - Apples
  - Beans
  - Kidney
  - Black
  - Garbanzo
  - Gluten Free Grains
  - Sweet Potato
  - Quinoa
  - Brown/Wild Rice
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NANOTECHNOLOGY

Roots International Schools offers Nanotechnology Educational Programme to have potential impact on the future of its students in the field of science and technology.

Nanotechnology Educational Program

Roots International Schools is introducing a theme of Nanotechnology for Junior and Lower Secondary tier. Nanotechnology is an emerging interdisciplinary field of science that uses knowledge at the Nano scale which occur at the scale of atoms and molecules. Since Nanotechnology is an interdisciplinary field, it can be incorporated in physical science, physics, chemistry, biology, mathematics, environmental sciences, and engineering. Nanotechnology offers connections between and among the sciences that will help students to develop an understanding of the relationships between disciplines. It relies on numerous science concepts. Through rational application of this subject students will begin to understand science concepts and will be capable of performing experiments and seeking information to understand these concepts.

Nanotechnology is going to play an imperative role in socio-economic development in the future; efforts have to be done in producing educated, qualified and well-trained learners that can fulfill the needs of the industry in the future. Therefore it is essential to introduce the course of Nanotechnology to an early stage study. After studying this subject, RIS students will be able to understand the fundamentals of Nanotechnology and its real-world applications. This way RIS students can make better decisions about their future career development and also contribute to the technology development in our society.

Most of Nanotechnology’s benefits will happen decades in the future, but it’s already helping towards improving our world in many different ways. Life itself is an example of Nanotechnology: proteins, bacteria, viruses, and cells all work on the Nano scale. Nanotechnology can also benefit the energy sector. The development of more effective energy-producing, energy-absorbing, and energy storage products in smaller and more efficient devices is possible with this technology. Items like batteries, fuel cells, and solar cells can be built smaller but can be made more effective with this technology.

RIS students will develop a rich knowledge foundation about the physical and life sciences. It expands upon the knowledge learned in earlier grades to understand the microscopic structures of materials and substances. Microorganisms, the five human senses, Nano food, structure and function of Nano products, applications of Nanotechnology all become part of the curriculum.

Another industry that can benefit from Nanotechnology is the manufacturing sector that will need materials like nanotubes, aerogels, Nano particles, and other similar items to produce their products with. These materials are often stronger, more durable, and lighter than those that are not produced with the help of Nanotechnology.

In the medical world, Nanotechnology is also seen as a plus since these can help with creating smart drugs. These help cure people faster and without the side effects that other traditional drugs have.

IMPORTANT THINGS HAPPEN AT THE NANOmeter SCALE.

We can think of the smell of freshly baked cookies and that is something that happens on the nanometer scale. The molecules that are released from the cookie when it bakes are less than a nanometer in size and so they are carried through the air to our noses because they are so small. Gravity does not have much of an effect on them and so they float along. They reach our noses and when they are very very close less than a nanometer away, we can smell them.
Nanotechnology has personal and social perspectives including natural resources, environmental quality, natural and human-induced hazards and science and technology in local, national, and global challenges. Introduction of this subject will broaden our students' thought spectrum and develop their cognitive skills. "RIS students will have a developed mind set and direction to choose a field to pursue their studies and help them in the decision to opt the right career for their bright future."

Nanotechnology will be taught by creating both knowledge-centered and learning centered environments inside and outside the classroom. "Nanotechnology is a very fast developing technology that requires a lot of creative ideas."

primary level teachers or instructors will undertake a dedicated effort to enforce the concepts of Nanotechnology provided in the curriculum.

Nanotechnology has been introduced specifically for the purpose of exposing your child to the concept of Nanotechnology as an emerging science. Teachers will also be trained in this area and will be capable enough to use the Nanotechnology approach in their lessons.

It has been held mandatory that the instructor of Nanotechnology necessarily have studied Sciences throughout his/her school and college educations.
Benefits & Applications

Most benefits of Nanotechnology depend on the fact that it is possible to tailor the essential structures of materials at the nanoscale to achieve specific properties, thus greatly extending the well-used toolkits of materials science. Using Nanotechnology, materials can effectively be made to be stronger, lighter, more durable, more reactive, more sieve-like, or better electrical conductors, among many other traits.

- Nanoscale thin films oneyeglasses, computer and camera displays, windows, and other surfaces can make them water-repellent, antireflective, self-cleaning, resistant to ultraviolet or infrared light, antifog, antimicrobial, scratch-resistant, or electrically conductive.

- Nanoscale materials in cosmetic products provide greater clarity or coverage; cleansing; absorption; personalization; and antioxidant, anti-microbial, and other health properties in sunscreens, cleansers, complexion treatments, creams and lotions, shampoos, and specialized makeup.

- Nano-engineered materials make superior household products such as detergents and stain removers; environmental sensors, alert systems, air purifiers and filters; antibacterial cleansers; and specialized paints and sealing products.

- Nanotechnology helps in improving the efficiency of fuel production from normal and low-grade raw petroleum materials through better catalysts, as well as fuel consumption efficiency in vehicles and power plants through higher-efficiency combustion and decrease in friction.

- To power mobile electronic devices, researchers are developing thin-film solar electric panels that can be fitted onto computer cases and flexible electric nanowires woven into clothing to generate usable energy on-the-go from light, friction, and/or body heat.

Nanotechnology is new and cool and there are millions of things to read about it. But what’s really important to know before trying to figure out what all this Nanotechnology stuff is about?

Here are four things to keep in mind.

1. All things are made of atoms
   It’s true! Most stuff, like you, your toothbrush, your computer, is entirely made of atoms. Things like light, sound and electricity aren’t made of atoms, but the sun and the moon are all made of atoms. That’s a lot of atoms! And they’re incredibly small. In fact, you could lay one million atoms across the head of a pin.

2. At the nanometer scale, atoms are in constant motion
   Even when water is frozen into ice, the water molecules are still moving. So how come we can’t see them move? It’s hard to imagine that each atom vibrates, but they are so tiny that it’s impossible to see them move with our eyes.

3. Molecules have size and shape
   Atoms bond together to form molecules of all different sizes and shapes. For instance, water is a small molecule made up of two hydrogen atoms and one oxygen atom, so it is called H₂O. All water molecules have the same shape because the angle of the bonds between the hydrogen atoms and the oxygen atom are more or less the same. Single molecules can be made up of thousands and thousands of atoms.

   Insulin is a molecule in our bodies that helps to control the amount of sugar in our blood. It is made up of more than one thousand atom! Scientists can map out the shapes of different molecules and even build most types of molecules in the lab.

4. Molecules in their nanometer-scale environment have unexpected properties
   The rules at the nanometer scale are different than what we usually encounter in our human-sized environment. For instance, gravity doesn’t count because other forces are more powerful at the molecular level. What is cool about Nanotechnology is that we can make things that don’t behave like we expect.

   Things are really different down there!!

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Innovative Application

- Medicine & Drugs
- Energy
- Defence & Security
- Bio Engineering
- Optical Engineering
- Nano Devices
- Nano Clothing
- Nanofabrics
- Cosmetics
- Innovative Application
Eco-Literacy Initiative

Our nation's future relies on well-educated children to be wise stewards of the very environment that sustains us, our families and communities, and future generations. Roots International Schools believe that it is eco-literacy which can best help us as individuals make the complex, conceptual connections between economic prosperity, benefits to societal health, and our own well being. Ultimately, the collective wisdom of our citizens, gained through education, will be the most compelling and most successful strategy for environmental management.

Over the years Roots International Schools has been incorporating the activities of environmental awareness but now it has initiated its comprehensive Eco-Literacy Curriculum bearing in mind its significance in today and years hereafter. Because, by the end of the day if we are left with latest resources yet no pure water for drinking, the entire quality of life is hugely affected.

When integrated into the core curricula or used as an integrating theme across the curriculum, Eco-Literacy is expected to have a measurably positive impact not only on student achievement in science, but also in reading (sometimes spectacularly), math, and social studies.

The Eco-Literacy Initiative (ELI) curriculum shall assist RIS students develop practical sense of:
- An Approach towards Sustainable Use of Resources
- Concept of Three R's (Reduce, Reuse, Recycle)
- Sun as major Source of Energy
- Green Habitat

- Forests & Ecosystem and effects of human on it
- Pollution Control
- Ozone Depletion and Global Warming
- Biodegradable and Non-Degradable Food-The best example of Chemical Energy
- Relationships of creatures in the living habitat (Producers, Consumers, Decomposers)

All the themes will fall under one basic curriculum containing various themes and teaching plan; followed by multiple hands-on activities. Every month will be utilized for covering one theme as:

i. Week 1: Concept building and creating awareness (Diagnostic Week)
ii. Week 2: Activities followed by the data collection, analysis and reviewing
iii. Week 3: Eco-Thematic assembly conduction and updating the eco-literacy’s web site with the Learning by doing proves.

Eco-Literacy Initiative aims to organize efforts to teach youth about how natural environment functions and, particularly, how human beings can manage their behavior and ecosystems in order to live sustainably.

Goals

- Be cautious about the extinct species of Pakistan that are the blind dolphins of river Indus, Snow leopards, common leopards, white backed vultures, turtles, cetacean, sharks, tuna and how to preserve the existing ones by making bird feeders and a lot more to see and observe.

- Activities include observing where the litter goes and how it affects the surroundings.

- Creating seminars and web blogs to host full spirited conversations, exhilarating ideas laughter and action to bring change in the community.

- Stop the degradation of our planet’s natural environment & build a future in which humans live in harmony & observe the beauty of nature to nurture and preserve it later.
What kind of Eco - Literacy are we offering?

RIS – Eco Literacy Initiative offers a broad framework that encompasses a number of different ideas and approaches to learning in, for or about the environment, in pursuit of sustainable development. The purpose of this initiative is not to debate the different definitions, but to encourage a shared acceptance of the diversity of learning approaches. This Eco-Literacy Initiative therefore, offers a brief description of environmental education approaches and offers a simple classification to help you as parents to navigate your way through the different activities and worksheets your child would be performing in school.

One way of understanding environmental education is to see it as education that engages learners with nature, encourages them to ask questions about the environment, and engage with environmental change. This means that environmental education is not just concerned with spreading messages about the environment, but it also provides opportunities to enhance learner’s understanding, question environmental problems and take actions for environmental change in pursuit of a sustainable development. Therefore, the classification we offer is tentative and open to change.

Information-seeking or Enquiry:
Our Students as learners will be encouraged to ask questions about the environment and gather information or materials.

Awareness-Raising:
Awareness-raising is an educational activity focused on raising a learner’s awareness about environmental problems, in the hope that they will do something as a response. An example might be an information campaign.

Action-oriented:
Action-oriented learning is an approach based on environmental change and improvement. The learners take action on a particular environmental problem and try out one or more solutions with the aim of achieving a better environment for all. A typical example is a litter pick.

Contact with nature / experiential / exploratory
Experiential approaches to environmental education are often based outside, in the particular environment in question, and seek to inspire learners to care for the environment by encouraging contact with nature and exploration, usually around a particular theme, such as ‘The Hike’.

AN OVERVIEW OF ENERGY EQUATION OF PAKISTAN

Availability of energy in any country has a strong relationship with its economic and social stability. The per capita energy consumption is an index used to measure the prosperity of any society.

Pakistan’s commercially utilisable energy resources consist of coal, gas, oil, hydro power, nuclear power and a large base of traditional fuels in the form of fuel wood, agricultural and animal wastes. The current energy supply matrix is a composite of various technologies. Oil and gas form the bulk of primary commercial energy supply mix of Pakistan, contributing 75.3% (oil: 23.3%, gas: 51.6%, LPG: 0.4%) as shown in Figure 1. The other sources include; coal: 6.2%, hydroelectricity: 11.3% and nuclear electricity: 1.2%.

Energy crisis can be reduced by:

1) Reducing unnecessary energy use:
Teaching students about Usage of electricity saving devices
Awareness campaigns for energy saving
Reduction in unnecessary transformations by minimizing use of automobiles and using bicycles and walking instead
Reduction in Industrial uses with installation of effective and energy efficient equipment and with increasing efficiency of workforce (cost effective)

ii) Developing new energy resources:
Using renewable resources (water) by constructing new dams and hydro power plants
Utilizing alternative energy resources:
- Wind power
- Biodiesel/Biomass
- Solar
- Tidal

AN OVERVIEW OF ENERGY EQUATION OF PAKISTAN

- Natural Gas 51.6%
- LPG 0.4%
- Nuclear 1.2%
- Hydro 11.3%
- Coal 6.2%
- Imported Oil 23.2%
- Indigenous Oil 5.9%
LETS GET UNITED FOR A BETTER FUTURE; FOR A BETTER GENERATION

What do you see when you picture an environmental literate community? What is happening? What are individuals, schools, businesses, organizations etc doing in your future vision?

Don’t you think members between schools and community are permeable?
Don’t you think incorporation of nature in all aspects of life is pivotal?
Don’t you feel we need to be more connected to one another for a cause?

Don’t you feel there is less fretting about children’s free exploration to nature?
Don’t you think we need clustered development to conserve wild life habitat?
Don’t we need to think on deliberate land use that includes built; sustainably managed wild spaces?

Don’t we need to think environmentally appropriate choices are less expensive than the conventional ones?
Don’t you feel that new and old neighborhood’s collectively plant bird habitats in their yards?
Don’t you want to see that there is no litter in the ground?

Don’t you feel we all should know where the food comes from, how is it planted processed etc?
Don’t you want to see no trash society and everything is being recycled?
Don’t you want to see Transportation bike, paths pedestrian friendly car pools car share etc

If you want all these changes Volunteer to welcome Roots International Schools Eco literacy Initiative (RIS-ELI) to make our children live in a better community, country and the ultimate world. Roots International Schools has initiated its Eco Literacy Programme that will not only enlighten the young brimming minds but educate you too of what you have been unaware of to save the country’s environment.
Robots International ROBOTICS Initiative

Robotics has been the center of attention nowadays with the hype in technology and improvements in this sector. Robotics is the basic need in the process industry which has changed the working environment of the industries. Robotics has provided mankind with ease of doing work and comfort, decreasing the work load of individuals. Robots are contributing a whole lot of work in the industries and now in homes as well. Industries are fully automated and all the difficult and dangerous work which can cause problems for humans is done by robots. Robots are used in industries like Car industry, pharmaceutical industry, textile industry etc. where robots are sharing work load of humans. Moreover robots are also used in defense activities like surveillance etc.

In Pakistan which is a growing economy, this sector is improving but still there is a lot of work to do in this regard. Roots International Schools has introduced Robotics as a mean to contribute to this change. RIS prepares its young students to drive those fully automated and some are working their way towards automation. This program will help students deliver exponential advancements in fields like high performance computing, computer vision, computer networks, material sciences and power electronics.

Robotics is the branch of technology that deals with the design, construction, operation, structural disposition, manufacture and application of robots. Robotics is related to the sciences of electronics, engineering, mechanics, and software.

Robotics is the most perfect instructional approach currently available. It offers classroom activities that teach high-value STEM content as well as opportunities to powerfully address ELA Common Core Standards. In fact, there are connections to robotics across the full spectrum of the curriculum. Robotics is also a highly effective way to foster essential work skills like collaboration, problem solving and project management. It does all this while keeping kids so motivated and engaged that getting them to stop working and move on to the rest of the school day can be a challenge -- a good problem to have!

The next important step for students in RIS Robotics Initiative will be to make it a central part of the regular, daytime classroom experience. Here are some favorite activities that can help robotics inspire and impact all students, and can also tremendously increase teachers satisfaction. RIS Robotics Initiative can work its magic even for early elementary students. One approach that establishes a strong connection to English language arts using 'LEGOs WeDo Construction Sets.' RIS students build robots to help them understand the characters and plots of books they read. Story analysis and comprehension are greatly enabled and enhanced. And of course, in designing and building their creations, students learn basic engineering and electronics, and practice math, too. This same approach of using robotics to focus and enable descriptive, explanatory language can work in higher grades, too.
Dear Parents,

The 21st century demand requires today's students to live and work in a rapidly changing technological society. Art education helps students develop visual literacy, learning to perceive and respond to the visual world with increased mindfulness and discriminating judgment. Students gain substantial understanding of others and themselves through the study of art and artist of different cultures and historical periods. They learn to view art as a reflection of beliefs, cultural ideas and social conditions and develop thinking and verbal skills through discussions and art expressions in which life and art are compared and contrasted. Art education today is so well connected to every communicating medium. Visual and performing arts are valuable heritage of every culture. We look back many centuries remains of every cultural values and norms are just maintained in the form of art which are so indicative of cross-cultural connections in ancient times and unveil the fact that may be so much of these cultures are emerged into and are reflection of each other.

Art enables students to speak out their ideas in highly effective and non-verbal media. Art educators and scholars point out that Art curriculum is the only curriculum explicitly concerned with the visually expressive and visually relational ideas. Art focuses on the importance of visual features of the environment, including works of art.

Students develop visual literacy, learning to perceive and respond to the visual world with increased awareness and discriminating judgment through art education. RIS gives significant place to visual arts in education in a balanced school curriculum. Comprehensive art curriculum is conceptually based, sequentially developed and focused on both creative and critical thinking to enable students to become self-governing, self-confident and contributing members of society.

An arts education helps build academic skills and increase academic performance, while also providing alternative opportunities to reward the skills of children who learn differently.

The design process, at its best, integrates the aspirations of art, science, and culture.