

NOVA PIONEER - PRIMARY COURSE CATALOGUE

Published 29, JULY 2020

# PRIMARY COURSE CATALOGUE



**NOVA PIONEER**  
SCHOOLS FOR INNOVATORS & LEADERS

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***“We Learn to  
Never Quit!”***

## ENRICHMENT COURSES



### Public Speaking (All Grades)

Public Speaking takes many forms; from delivering a formal speech to an audience to reporting back on a project or explaining an idea to your class. As a way of communication, it allows us to form connections, influence decisions and motivate change. Public speaking helps a child to make headway in communication skills, increased self-esteem and efficacy, planning experience and the power of persuasion.

In this course, students will;

- Gain the confidence of public speaking and know how to deal with stage fright
- Learn how to prepare and practise for public speaking
- Learn to give informative and persuasive speeches
- Learn to participate appropriately in class discussions and debate



### Bible Buddies (All Grades)

*"Train up a child in the way he should go and when he is old he will not depart from it".  
(Proverbs 22:6).*

As young as children are, it is important to teach them about the important life issues that they may encounter and how they will deal with them. Students will be immersed in the wonderful world of Bible stories that teach them the geography of the Bible character, the struggle they faced and the lessons in overcoming them. By the end of this course students will have learnt strong values such as:

- Kindness & love
- Empathy
- Humility
- Faith & faithfulness



## Physical Education (All Grades)

The purpose of this course is to develop individuals who are proficient at movement and who can use physical activities to maintain or develop physical fitness, develop skills for sport, recreation, and lifelong healthy lifestyle.

### Course Outline

This subject is about learning to move and moving to learn. Learners develop skills through a wide variety of age-appropriate physical activities, including games, gymnastics and dance. As individuals and team members, they will:

- ★ Increase confidence, moving with increasing control, fluency and variety
- ★ Improve their understanding of concepts, rules, tactics, strategies and compositional ideas
- ★ Participate in respectful and responsible ways, engaging appropriately and safely
- ★ Improve knowledge and understanding of how physical education can contribute to a healthy and active lifestyle.
- ★ Develop transferable skills promoting physical, cognitive and social development and become independent, critical and reflective movers and thinkers.



## Art & Drawing (Playgroup to Pre-Primary 2 Only)

Children naturally love to get creative. They are always open to new ideas and love exploring the locally available materials around them. Art is one of the most fun, exciting and engaging activities that provides every child with the opportunity to express their creative ideas. It not only provides the basis for activities like painting, sculpture and printmaking – but also provides a direct link with reading, writing and especially mathematics.

Students will benefit in the following ways:

Creating art expands a child's ability to interact with the world around them, and provides a new set of skills for self-expression and communication. Not only does art help to develop the right side of the brain, but it also cultivates important skills that benefit a child's development.

These skills include:

- Communication skills
- Problem-solving skills
- Social and emotional skills
- Fine Motor skills

Published 29, JULY 2020



## Music (Playgroup to Pre-Primary 2 Only)

Whilst being fun and social, music is also important in helping develop a child's talents, interests, and passions. Music is the understanding of the relationship between invisible internal objects. It helps children move around those big invisible pieces of themselves and rearrange their insides so that they can express what they feel when they cannot talk about it.

One particularly enriching activity is learning to play a musical instrument. There has long been a correlation between musical training and academic success, but there are other benefits too. We will achieve this by laying a foundation with the following skills;

- Singing simple songs with movement and gesture
- Learning about different rhythms
- Learning about different instruments
- Learning about the music of different regions of the world
- Learning to express what different types of music make them think and feel



## Cookery (Grades 1 through 5)

You're never too young to start cooking!

Children explore with their senses by tasting, touching and smelling. They will also LOVE the hands on experience that cooking provides. Cultivating culinary skills in kids is a great way to help them build healthy eating, Math skills by measuring and Writing skills by working with menus. When children know how to make healthy food choices and can prepare well-balanced meals on their own, they'll be far less reliant on unhealthy, quick and easy options like fast food and pre-packaged foods. These healthy habits will carry into adulthood.

This class will empower your child to become a "Mini-Chef" in the kitchen, as she begins a lifelong lesson of choosing and exploring healthy and whole foods. In this course students will be able to prepare healthy milkshakes, bhajias, toast and many more delectable dishes.



## Raising French Readers (Grades 1 through 5)

French is the second most spoken language in the world. Imagine the possibilities that learning French could open for a child. Students will learn through the four skills of language learning: listening, speaking, reading and writing. Each lesson introduces practical new vocabulary and grammar concepts through listening comprehension, speaking and writing activities. Students will build confidence by talking about themselves, others, describing their surroundings and additionally have fun using numbers for dates and time. Simple grammatical structures are practised in innovative and interesting ways with a variety of learning styles. Students will also have story book recommendations to help them fall in love with reading.



## Digital Literacy (Grades 1 through 5)

In this course we aim at building and developing our young innovators and leaders' digital knowledge by looking at how technology can be used in various ways to make life better. We will get to interact with various applications that are used in our day to day classroom as well as prepare different documents of our own, edit and enhance them to be more attractive to the reader.

By the end of the course the student will be able to:

- Interact with various applications.
- Collect, record and store data digitally.
- Present data and findings.
- Navigate the digital world with ease.
- Build their coding skills and understanding of technology.
- Understand the various ethics and security protocols governing the world of technology
- Understand the role of technology in life.

Published 29, JULY 2020



## Coding (Grades 1 through 5)

**Coding** is the method of giving instructions to a computer to perform a specific task. You may have also heard it referred to as “**software programming**” or “**computer programming**.” These instructions are communicated using a “computer language” that computers can understand. These languages include visual blocks, Java, Python, and C.

In this course, there will be a vast area of knowledge in Computer Science disciplines, that will be taught in order to:

- Develop important skills

Research shows that computer science promotes critical thinking, creativity, problem-solving, and engagement in real-world skills.

- Improve performance in other subjects

The benefits of Computer Science in the classroom is evident. A recent research study found that classrooms with resourceful teachers see higher scores on English, Math, and Science standardized tests after teaching Computer Science Fundamentals lessons.

- Build confidence and interest early on

If we wait until high school or college to introduce students to computer science, some students will already have decided that computer science is not for them or they will feel that they are already too far behind compared to students who study it outside of school.

Exposing students to computer science in grades 3 and 4, when they don't have to opt-in to a class like they might in high school, allows all students to see how accessible the subject is, and decide if they enjoy it.

- It's fun!

Computer science gives students an opportunity to collaborate, be creative, and express themselves!

\*Coding is the set of instructions you give to a computer. Computer science is a field where people use the power of computers to solve big problems. Computer science includes coding, but it also includes other things, like how the internet works and impacts society, what to do with big data, and how to break down big problems. Computer science is about problem-solving, critical thinking, and persistence.\*

## HALLMARK COURSES



### Character Development (Playgroup to Grade 5)

Character is an aggregate of all our traits and includes all our thoughts, feelings, words, and actions. This is one momentous chapter in our lives where we get to mould the behaviour of our Novaneers. We seek to instill the different values that will strengthen the social fabric of the family, school and community at large.

In this course, we purpose to impart our learners with desirable traits such as **courage, honesty, responsibility, empathy and leadership** among others, as they grow to become great individuals in the society. The lessons are designed to provide opportunities for them to discuss, understand, and apply these skills in various case study examples. The skills in mention include:

- Self Awareness Skills
- Relationship Skills
- Self- Management
- Social awareness



### Entrepreneurship (Playgroup to Grade 5)

There can be tremendous value in being involved in entrepreneurial activities at an early age. There are potential benefits children could garner from such experiences. They will have a stronger appreciation of earning and spending money, develop great work ethics, creative thinking and better goal setting which will ultimately improve their decision making skills.

In this course, students will learn about;

- Who an entrepreneur is and examples of ventures they can be involved in.
- Entrepreneurial skills and the impact of our surroundings on an entrepreneur.
- Learn from others' experience.
- Understanding a business plan.
- Gathering information.
- Innovation and risks in business.
- Setting up a company.
- Budgets in business.



## Leaders of Today (Playgroup to Grade 5)

We take pride in uniquely being Schools for Innovators and **Leaders**. 21st Century Leadership is intended to respond to the unique challenges and opportunities of today's world. It views leadership as a characteristic of any social network - not solely about who's in-charge or who's taking charge but something everyone participates in. It incorporates values and fosters a wide range of capacities, competencies and skills. This is aligned to the Nova Pioneer 3C's - **C**haracter, **C**onnection, **C**apabilities. These include: critical and creative thinking, self-awareness, communication, social intelligence and collaboration among others.

Our '**Leaders of Today**' programme will develop these contemporary leadership skills by orienting our learners, both inward and outward, and equipping them with new ways of being, knowing and doing. The courses aim to make **R**espect, **R**esponsibility, sound **R**easoning and **R**esponsiveness to our environment (both physical and human) second nature. Our programme is tailored for all ages from 3 years and up. Our approach is authentic and relatable to learners. It starts with the small things. Learners will be trained to be 'one's own leader' in order to make good choices when making life's simple decisions everyday. And, in forming habits that exude consistency in such, learners will master how to influence and inspire others positively. They will be given opportunities to be good observers, listeners, evaluators and analysts, practice to learn from others and be empowered to appreciate lifelong learning



## Pan-Africanism, History & Modern Day Solutions (Playgroup to Grade 5)

Nelson Mandela, once said, "History will judge us by the difference we make in the everyday lives of children". It is in light of this that we are here to impact the lives of children through our history.

Want your children to learn African History? Learning history in the early years will open children's worlds, hearts and broaden their perspective on how diverse our continent is. Students will learn how African heroes broke barriers, and achieved their goals through perseverance, persistence, courage, community and kindness. This values focused course will introduce students to Nelson Mandela, Wangari Mathai, Ellen Johnson, Miriam Makeba, Chinua Achebe, Kwame Nkrumah among many others and lessons from their commendable character: infectious humility, perseverance, courage under fire, and peaceful problem-solving. At the end of the course, students will be able to articulate how Africans have participated in historical events that have shaped our world, borrow from these lessons and apply them in their lives. Older students will be able to define Pan-Africanism in Africa and the Diaspora and learn how it is being restored today.

## ACADEMIC COURSES

# PLAYGROUP ACADEMIC COURSES

### **Number Fun**

Maths activities play a major role in a child's development and helps children make sense of the world around them. Math is an important part of learning for children in the early years because it provides vital life skills. The activities will help children solve daily life problems, measure and develop their own spatial awareness, and teach them how to use and understand shapes.

It is therefore very crucial to nurture the early maths skills in learners by being good role models, providing a conducive environment for learning and opportunities for children to:

- discover and create.
- use number concepts and skills to explore.
- develop confidence in their ability to think things through.
- solve meaningful and daily life maths problems.
- create connections to help discover relationships in events.

### **Raising English Readers**

***“If you want your children to be smart, tell them stories. If you want them to be brilliant, tell them more stories.” Albert Einstein***

We perceive story telling moments as magical moments where children are ushered into a world of imagination. Their minds are activated to envision themselves as the characters in the story and get creative in how they will respond to different situations in the story.

Storytelling is an essential element in enhancing reading and writing readiness, as it raises their enthusiasm for reading texts to find stories and also initiates writing. Children will quickly want to write stories and retell the stories they listen to. This course will inspire purposeful talking as well as improve listening skills.

Published 29, JULY 2020

## **Science Exploration**

This course will aim at nurturing students' natural sense of adventure and curiosity. It will instill explorative skills such as observation. Our course will dwell much on the things that are found in our surroundings, such as those we see and touch every day.

The course will also develop students' own understanding of the natural world. They will work on playful, simple and hands-on activities that will teach them skills such as observation, critical thinking, experimenting and problem solving.

We'll explore topics such as:

- Floating and sinking
- Animals
- My body
- And other exciting themes!

## **Pre-Writing**

Pre-writing skills are the fundamental skills children need to develop before they are able to write. They are essential for the child to be able to develop their pencil grip, learn how to write letters and numbers correctly. In this course, we will cover skills such as Scribbling, Colouring, Tracing, Drawing and Copying for younger students.

For older students, they will practice paragraph organization, creativity building, writing of essays, narratives and short poems which will help enhance the following skills:

- Planning and forethought
- Organization of one's thinking
- Reflective thought
- Strong grammar skills
- Collaboration and communication

## PRE-PRIMARY 1 ACADEMIC COURSES

### Number Fun

Math is fun and can be learnt through play and normal daily experiences and routines. It becomes real to young children as they use it by talking, reasoning, playing and doing, which in turn helps them in problem solving. Since children learn mostly by doing, we will focus less on passive learning and provide lots of hands-on activities. We hope to build more on this skills by doing the following;

- Classification
- Measurement and Capacity
- Geometry- shapes
- Number Recognition
- Number Value
- Number writing

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Key skills include:

- Reading readiness
- Listening & Purposeful talking
- Word decoding skills

Published 29, JULY 2020

- Basic story structure (character, setting, problem and solution)



## Science Exploration

Preschool age children are inquisitive and open-minded, perfect traits for budding young scientists! Science at a preschool level is a lot of fun, Preschoolers are truly mesmerized by chemical reactions, love exploring nature, and jump to build things.

To preschoolers, the world around them seems almost magical. Our role is to help keep this fascination alive by giving them the time, space, and freedom to explore and investigate their interests and ideas.

We hope to achieve this through various weekly activities such as:

- Sorting and classifying.
- Observing and examining.
- Experimentation.
- Exploration
- Predicting and making hypothesis
- Wondering and questioning.
- Investigating.
- Problem-solving



## Pre-Writing

Writing is a lesson kids will use for a lifetime. Teaching preschoolers to write through fun activities shows them how to write every letter in the alphabet and their name. In this course, we will involve our students in activities which help develop pre-writing and writing skills.

### Pre-writing skills

This skill is essential for the child to be able to develop the ability to hold and move a pencil fluently and effectively and therefore produce legible writing. We will practice activities such as threading and lacing, scissor projects, drawing, craft, coloring, tip painting and beading.

### Writing skills

To enhance this skill, we will involve the students in activities such as letter formation, copying simple words and sentences, vocabulary challenge, cut out my name, making Cards, filling in a Story and drawing words.

## PRE-PRIMARY 2 ACADEMIC COURSES

### Singapore Math

Maths is fun to learn if it includes some key features that are concrete, pictorial and abstract. This helps in developing a deep understanding of maths through building on existing knowledge. Young Novaneer Scholars will have fun with:

- Matching and sorting
- Ordering Numbers
- Picture Graphs
- 2D and 3D shapes & Patterns
- Measurement
- Addition & Subtraction
- Comparing sets and Numbers

### Raising English Readers

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Key skills include:

- Reading readiness
- Creative writing
- Listening & Purposeful talking
- Word decoding skills
- Comprehensive and listening strategies.
- Basic story structure (character, setting, problem and solution)



## Science Exploration

### **September Programme:** Light, Shadow, Volume & Pitch

In the first half of the month's science exploration, children will explore outdoor shadows made with the sun's light, then transition to indoor shadows by exploring and creating shadows using lamps and flashlights. This will culminate in a shadow puppet performance, where children will use shadows to create characters to tell a story. In the second half of the month's science exploration, children will be exploring sounds. Children will listen, notice and identify sounds they hear around them every day. They will investigate how sounds can change by volume (soft/loud) and pitch (low/high). This will culminate in an orchestral performance using home-made instruments.

- Light & Shadows
- Sound, Volume, and Pitch

### **October Programme:** Plants and Seeds

In this science exploration, students will begin this unit by planting seeds and bulbs. They'll predict how long it will take bean and grass seeds to sprout and then closely observe their changes using magnifying glasses. They'll record the growth of the seedlings in their Plant Journals and on a class chart. They'll grow green onion bulbs in water and compare them to the seeds. Children will set up several experiments to test what plants need in order to grow. Children will spend a lot of time outside as they investigate trees, plants, roots, branches, leaves, and more. They will make connections between what they have talked about and seen indoors with what they see outdoors. They will go on scavenger hunts, make bark and leaf rubbings, collect and sort plant and tree parts, and develop an appreciation for the natural world around us.

- Plants
- Seeds
- What Plants Need to Grow

### **November Programme:** Colours and Colour Mixing

In this science exploration, students will explore the shades of a single colour; this will progress onto investigating how mixing two different colours creates a third and culminates in an experiment with mixing several different colours together. In the last movement, students will explore colour and light, noticing how light changes colours, and what the world looks like viewed through rose (or orange, blue, or green) coloured glasses.

- Colour & Colour Mixing
- Colour and light

Published 29, JULY 2020

## Writing

It is believed that children who spend more time working with a pen and a paper over typing have stronger reading and spelling skills. Writing activates the parts of the brain that controls the ability to read. It's every parents dream for their children to have great writing skills. Being able to write effortlessly enables the mind to focus more fully and can communicate well.

### **Why do we focus on writing for our young Novaneers?**

Pre-writing skills are essential for the child to be able to develop the ability to hold and move a pencil fluently and effectively and therefore produce legible writing. When these skills are underdeveloped it can lead to frustration and resistance due to the child not being able to produce legible writing or to 'keep up' in class due to fatigue. This can then result in poor self esteem and academic performance.

Therefore, this course will focus on the following writing skills.

- Letter/Number formation.
- Writing letters/Numbers
- Writing/copying simple sentences
- Writing short paragraphs.

## Raising Kiswahili Readers

We Kiswahili ni mojawapo ya lugha zinazokua kwa kasi sana katika bara la Afrika na ulimwengu kwa jumla. Ni lugha ambayo ina manufaa mengi sana, sio katika kuwasiliana tu bali pia katika kutegauchumi na nyanja nyingine kama kukuza uzalendo.

Inafahamika kuwa Kiswahili kina sheria nyingi ambazo ni sharti zifuatwe ndiposa mtu afuzu kuitwa Mswahili. Kwa sababu hii, vipindi katika somo hili vitamsaidia mwanafunzi kuvalia njuga sheria za lugha akiwa mchanga na kumfungulia mipaka yake ya usoni ili aweze kujitosheleza katika ulimwengu huu ulio na ushindani mkubwa. Kiswahili kitampa mtoto nafasi ya kuwa tofauti na wengine.

## GRADE 1 ACADEMIC COURSES

### Singapore Math

Math is so fun to teach young minds because there are a lot of daily activities that incorporate math. Children are naturally curious and explore the world around them. One way to do this is to ensure that appropriate toys and other resources are available for children to play with and for the adults to recognize the mathematical potential of these toys and resources. Students don't need worksheets for math, they should learn through play and hands-on activities.

Young Novaneer Scholars will have fun with:

- Number Concepts like counting, writing and comparing.
- Patterns & relationships, number patterns, making fact families, addition and subtraction.
- Measurement
- Geometry

### Raising English Readers

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Storytelling is an essential element in enhancing reading and writing readiness, as it raises their enthusiasm for reading texts to find stories and also initiates writing. Children will quickly want to write stories and retell the stories they listen to. This course will inspire purposeful talking as well as improve listening skills.

Key skills include:

- Reading readiness
- Listening
- Word decoding skills
- Comprehensive and listening strategies.
- Basic story structure (character, setting, problem and solution)

Published 29, JULY 2020



## Science Exploration

### **September Programme:** Materials In Our World

What role do materials play in our daily lives? How can materials be used for specific purposes on the basis of their properties? In this exploration, students will examine the properties of various materials.

The unit will culminate in answering the question - what is the best material for a bike helmet?

### **October Programme:** Pushes & Pulls

What are forces and how do they affect our world? Where do we see pushes and pulls in our everyday lives? In this exploration, students will conduct experiments to determine properties of force. The unit will culminate in an experiment testing the effects of ramps on movement.

### **November Programme:** Growing Plants

How do organisms live, grow, respond to their environment? What do plants need to grow? In this exploration, students will plant their own seeds, explore how plants react to differences in light, and follow along as their plants begin to grow and flower.



## Writing

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Published 29, JULY 2020



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## GRADE 2 ACADEMIC COURSES



### Singapore Math

Singapore Mathematics sets clear learning objectives and focuses on developing knowledge and skills. It emphasizes the development of students' mathematical abilities, with a focus on problem-solving.

We have five interrelated components that support the development of problem-solving abilities: concepts, skills, processes, metacognition, and attitudes.

Students are taught the mathematical concepts in a three-step learning process: concrete, pictorial, and abstract.

The students will be provided with directions for the teaching, learning, and assessment of mathematics.

By the end of the course, students will learn about numbers, statistics, arithmetic, shapes and pattern, times and money



## Raising English Readers

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Key skills include:

- Creative writing
- Word decoding skills
- Comprehensive and listening strategies.
- Basic story structure (character, setting, problem, and solution)



## Science Exploration

**September Programme:** Changing Materials

How can materials be changed to serve a function? How do materials change shape? In this exploration, students will explore the many ways that materials can change shape through physical manipulation, changes in temperature, and dissolving.

**October Programme:** Going Outside

What are some different places people live around the world, and what makes those places unique? How can we care for our environment? In this exploration, students will study places, weather, and environmentalism. They will learn about damages to the environment and ways these damages can be prevented.

**November Programme:** Light, Darkness, and Plants

What are light sources, and how are they used? How are shadows made? In the first half of the month, students will explore the properties of light, darkness, and shadows. The exploration will conclude with students performing their own shadow puppet show. In the second half of the term, students will explore the properties of plants, what plants need to live, and they will grow their own plants.



## Writing

Writing can help develop numerous physical skills. Not only does it help to improve hand-eye coordination, but also strengthen muscles that can be used for everyday tasks. Creative writing plays an important role in a child's literacy development. They enjoy writing more, having to choose their own subjects and methods of writing; they also develop better reading habits from reading their own stories.

In this course the students will practice writing of essays, narratives and short poems which will help enhance the following skills:

- planning and forethought
- organization of one's thinking
- reflective thought



## Raising Kiswahili Readers

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## GRADE 3

### Singapore Math

Singapore Math aims to help students develop the necessary math concepts and process skills for everyday life and to provide students with the ability to formulate, apply and solve problems. Singapore Math teaches students mathematical concepts in a three-step learning process: concrete, pictorial and abstract. By the end of this course, the students will be able to:

- Solve one and two step word problems related to addition and subtraction with regrouping
- Solve one and two step word problems related to multiplication and division with regrouping
- Representing money using different denominations
- Work out division problems using long division strategy
- Solve word problems related to money
- Make equivalent fractions
- Simplify fractions

### Raising English Readers

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Key skills: include:

- Reading readiness
- Purposeful talking
- Comprehension and listening strategies.
- Basic story structure (character, setting, problem and solution)

Published 29, JULY 2020

## **Science Exploration**

### **September Programme:** Investigating Materials

How can we investigate materials? How do the properties of materials determine what they are used for? In this exploration, students will explore the properties of various materials, sorting and testing them to determine the best possible materials to create an umbrella.

### **October Programme:** Life Processes

What makes something alive? In this exploration, students will explore the characteristics of living things, learning about plant and animal growth and development, nutrition, movement, and more. They will classify living and nonliving things through research and critical thinking.

### **November Programme:** Forces

What are some ways we can make objects start or stop moving? How do we know how strong a force is? What is friction, and how does it impact the movement of objects? In this exploration, students will conduct experiments to learn about various forces and how they can be used to manipulate objects.

## **Writing**

Writing equips children with great communication and thinking skills. It expresses who we are and makes thinking visible and permanent. This course is designed to support and enrich children's writing skills, enhance oral communication skills, written communication skills, develop critical thinking skills and create research skills. This will be achieved through:

- Writing simple ideas
- Use of photographs and images.
- Analyzing texts.
- Case study.



## Raising Kiswahili Readers

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## GRADE 4



## Singapore Math

Math is so fun to teach to fourth graders because there are a lot of daily activities that incorporate math. Fourth graders will enjoy a mix of paperwork, games and challenges when it comes to Singapore Math.

- Number bond
- Lattice Multiplication
- 3D-Shape Construction
- Geometry
- Concrete-Pictorial-Abstract Model Activity
- Kenny Kenny Puzzle
- Math Games



## Raising English Readers

***“If you want your children to be smart, tell them stories. If you want them to be brilliant, tell them more stories.” Albert Einstein***

We perceive story telling moments as magical moments where children are ushered into a world of imagination. Their minds are activated to envision themselves as the characters in the story and get creative in how they will respond to different situations.

Storytelling is an essential element in enhancing reading and writing readiness, as it raises their enthusiasm for reading texts to find stories and also initiates writing. Children will quickly want to write stories and retell the stories they listen to. This course will inspire purposeful talking as well as improve listening skills.

Key skills: include:

- Creative writing
- Comprehension and listening strategies.
- Basic story structure (character, setting, problem and solution)



## Science Exploration

**September Programme:** Sound

How does sound travel? How can we control the volume of a sound? In this exploration, students will conduct experiments to discover the properties of sound. The month's learning will conclude with a study of various instruments and the ways in which they create sound.

**October Programme:** Skeletons, Drugs, & Medicine

How is the human body constructed? What is the role of skeletons, muscles, and bones? In this exploration, students will research parts of the skeleton, joints and muscles as well as the function of the skeleton and attachment of muscles to bones. Students will plan an investigation to find the strength of muscles. Finally, students will explain the role of drugs as medicines and understand that medicines prevent, cure or alleviate symptoms of illness.

**November Programme:** Electricity & Magnetism

How is electricity used in our world? How do cells and wires conduct electricity to light a bulb? What are the properties of magnets, and how do they interact with each other and other objects? In this exploration, students will discover how circuits and switches work through experimentation. They will further explore the properties of magnets and magnetism through hands-on activities.

Published 29, JULY 2020



## Writing

Writing equips children with great communication and thinking skills. It expresses who we are and makes thinking visible and permanent. This course is designed to support and enrich children's writing skills. The following topics will be covered:

- Paragraph organisation
- Cohesion in writing
- Grammar, spelling and punctuation
- Creativity building



## Raising Kiswahili Readers

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## GRADE 5



Math and arithmetic skills are some of the oldest yet the most advanced skills discovered by man. Throughout this course we will get to engage into various concepts in math as we get to know how they are worked out, relate them to our day to day life.

We will start by creating a visual representation of them so as to understand the key steps to follow while solving them. We will then link them to a visual aid by representing them in a diagram after which we will be able to solve the number sentences in math.

Through this process the learner is able to link the real world to the math world and hence able to understand why we use the operation we used.

We will look at concepts such as:

- Numbers and number operations.
- Fractions and fraction operations
- Area and volume.
- Time
- Algebra.
- Geometry
- Money
- Data and data representation

Published 29, JULY 2020



## Raising English Readers

***“If you want your children to be smart, tell them stories. If you want them to be brilliant, tell them more stories.” Albert Einstein***

Storytelling is an essential element in enhancing reading and writing readiness, as it raises their enthusiasm for reading texts to find stories and also initiates writing. Children will quickly want to write stories and retell the stories they listen to. This course will inspire purposeful talking as well as improve listening skills.

Key skills: include:

- Creative writing in response to literature
- Listening
- Purposeful Discussion
- Story Comprehension



## Science Exploration

**September Programme:** Evaporation & Condensation

What is evaporation, and why is it useful? How does the water cycle work, and what are its effects? In this exploration, students will investigate the properties of evaporation and condensation through experimentation and data collection. The investigation will conclude with students assembling their own solar desalination system.

**October Programme:** The Way We See Things

How does light travel? In what ways can mirrors redirect light? In this exploration, students will investigate the properties of mirrors. Students will conduct hands-on experiments to confirm or reject their hypotheses about light.

**November Programme:** Investigating Plants

Why do plants need seeds? Why can seeds germinate without light? Why do plants need light for growth?

How do plants change and grow through their life cycle? In this exploration, students will investigate how light impacts plants in various ways. Throughout the month, students will conduct experiments to determine the needs of plants, using the evidence they find to confirm or reject their hypotheses.



## Writing

Writing provides a permanent record of information, beliefs, arguments, feelings, explanations, theories and so on. Through writing we communicate our ideas not only with our contemporaries but also with our future generations. Even knowledge or information of the past years is also transformed to the future generations through writing. It is crucial for Novaneers to learn, to write and to improve this skill. Therefore at this stage the students who develop positive perception about writing, they are more likely to be successful writers in future.

In this course, we shall focus on the following skills:

**Strong Grammar Skills:** Proofreading, Revising, Drafting, Spelling, Structure, Style, Punctuation, Strong Vocabulary and planning.

**Research:** Report Writing, Online Searches

**Collaboration and Communication:** Writing is often collaborative, while editing is *always* collaborative. To succeed, you must be able to work effectively with others, even when they are difficult to get along with or understand. Active listening skills will go a long way toward building strong writing skills. This will be achieved through sharing personal ideas and writings with others.



## Raising Kiswahili Readers

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