

CURRICULUM GRADE-4



OVERVIEW

Any good curriculum should meet the needs of the learner, both of the present and the future, in the context of the knowledge and skills requirement of the 21st century. A general and comprehensive school education will establish a strong platform and foundation not only for higher studies leading to a career, but also overall empowerment of the individual for a meaningful life.

The focus in our curriculum is not on the delivery and memorization of content but on the understanding of concepts and the development of skills as appropriate to each subject domain, specifically, the 21st century skills i.e. four Cs, Collaboration, Critical thinking, Communication and Creativity. Critical thinking envisages a focus not on memorization and rote learning but on the Higher Order Thinking Skills i.e. understanding, application, analysis, synthesis, evaluation and creativity. Classroom practice will reflect this new focus. Collaboration and independent learning will become more important skills of an empowered learner rather than memorization.

OBJECTIVES

- *To promote the active involvement of children in a learning process that is imaginative and stimulating.*
- *To enable children to work independently and also collaboratively.*
- *To explore concepts using tools of scientific enquiry.*
- *To set suitable learning challenges.*
- *To provide a variety of learning experiences.*
- *To overcome potential barriers to learning and assessment for individuals and groups of pupils.*
- *To respond to pupil's diverse learning needs.*

STATEMENTS

*Our mission is to enable “**learning for life**” in a safe environment, which is inspirational, fun filled & nurtures inquisitive minds.*

Teaching and learning is the core purpose of our school. The purpose of this booklet is to help parents understand what is expected of students in Grade 4 in the core subject areas of English, Hindi, Mathematics & EVS.

It provides a listing of skills & concepts to be taught in Grade 4. Suggestive list of tools is also provided to help your child learn at home. The curriculum incorporates new content and embraces new approaches and methodologies.

ENGLISH

OVERVIEW

As English is the medium of instruction, development of competence in English enables the accelerated learning of other subjects also. The emphasis is on the development of fluency with the balance of all skills i.e. listening, speaking, reading, writing and also refining the student's ability to express himself by focusing on Higher Order Thinking Skills transacted through the medium of English.

OBJECTIVES OF TEACHING ENGLISH

By the end of Grade 4 the students will be able to:

- *Listen to level appropriate concrete and abstract passages and answer complex questions related to various aspects of the passages.*
- *Read, understand and appreciate level appropriate literary texts.*
- *Use grammatically appropriate structure of more complex and compound sentences.*
- *Express abstract ideas clearly in both written and spoken form.*
- *Use a dictionary to find meanings of unfamiliar words, their synonyms and antonyms and use various forms of the word in sentences.*
- *Plan and write a paragraph with thematically linked sentences.*
- *Engage in simple dialogues on a range of themes, listen and respond appropriately.*
- *Spell level appropriate words correctly.*
- *Make short notes from a text and use them to aid writing.*

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>April</i>	<ul style="list-style-type: none"> • <i>Short Story</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read, understand, make inferences and draw conclusions</i> • <i>Listen and engage effectively in collaborative discussions on the given topic</i> • <i>Determine the theme of a story, summarize the text</i> • <i>Identify and use the kinds of Nouns correctly</i> • <i>Use precise language and vocabulary to explain the events in a story</i> • <i>Use dialogues to develop / narrate experiences</i> • <i>Frame sentences using the given words</i> • <i>Distinguish between various parts of speech</i>
<i>June</i>	<ul style="list-style-type: none"> • <i>Fantasy</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Compose own poem using rhyming words</i> • <i>Appreciate the poem by describing his/her personal response to the theme</i> • <i>Use the Articles correctly in written and oral expression</i> • <i>Write a "Thank you" note</i> • <i>Recount an experience in a sequenced manner</i>
<i>July</i>	<ul style="list-style-type: none"> • <i>Animal story</i> • <i>Imagery</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read and understand to make inferences about how an author's sensory language creates imagery in literary text</i> • <i>Read and understand the central idea of the story</i> • <i>Write an imaginative story containing details about the characters and setting (Picture composition)</i> • <i>Speak using picture as a clue</i> • <i>Pose and respond to specific questions to follow up on information and contribute to discussion</i> • <i>Identifying and learning about the kinds of Pronouns</i> • <i>Use relative pronouns (who, whose, which, that)</i> • <i>Identify Subject and Predicate in a sentence</i> • <i>Frame sentences using the given words</i> • <i>Demonstrate an understanding of words by relating them to words with similar but not identical meaning(synonyms)</i> • <i>Demonstrate an understanding of words in relation to their opposites (Antonyms)</i>
<i>August</i>	<ul style="list-style-type: none"> • <i>Adventure story</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read and identify the author's purpose of writing</i> • <i>Listen for understanding the main idea & supporting details</i> • <i>Make a connection between the text of the story and his/her own experiences and knowledge</i> • <i>Narrate the story in his/her own words</i> • <i>Use of Adjectives correctly in sentences</i> • <i>Learning about the kinds and order of Adjectives</i> • <i>Identify Verb forms</i> • <i>Auxiliary Verbs and their uses</i>

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>September</i>	<ul style="list-style-type: none"> • <i>Fairy Tale</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read and make predictions</i> • <i>Write an alternative ending to the story</i> • <i>Describe the characters, setting, plot, main idea and supporting details</i> • <i>Weave a story visualizing characters and narrate the story</i> • <i>Identify simple present, past and future tense</i> • <i>Narrate an incident using tenses</i> • <i>Future Continuous Tense</i>
<i>October</i>	<ul style="list-style-type: none"> • <i>Descriptive poem</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read independently, paraphrase about the reading and participate in a group talk</i> • <i>Demonstrate command of grade level conventions to use language effectively</i> • <i>Recognize and use punctuation marks including commas and quotation marks in sentences</i> • <i>Write a paragraph using punctuation marks</i> • <i>Learning about the Adverbs of time, place and manner</i>
<i>November</i>	<ul style="list-style-type: none"> • <i>Functional grammar</i> • <i>Simile</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Distinguish between present, past, past participle form of verbs and their usage</i> • <i>Join sentences with connectives</i> • <i>Learning the correct use of Linking words in sentences</i> • <i>Write a paragraph using correct form of the verb</i> • <i>Distinguish and create new similes</i>
<i>December</i>	<ul style="list-style-type: none"> • <i>A memoir</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Read, understand, make inferences and draw conclusions</i> • <i>Listen to record details in a format given</i> • <i>Sequence, summarize the plot's main events of the text read and explain their influence on future events</i> • <i>Develop a story by elaborating plot & characters</i> • <i>Write dialogues for characters or events as required</i> • <i>Make polite requests and polite refusals</i>
<i>January</i>	<ul style="list-style-type: none"> • <i>An Article</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Listen to the description and identify a picture</i> • <i>Sequence the events in the given article and retell</i> • <i>Write a formal letter</i> • <i>Correct use of Prepositions of place, time and directions</i>
<i>February</i>	<ul style="list-style-type: none"> • <i>A play</i> • <i>Functional grammar</i> • <i>LSRW skills</i> 	<ul style="list-style-type: none"> • <i>Interpret non- verbal messages from gestures, postures and facial expressions</i> • <i>Create literary text by developing storylines, character and settings</i>

LIST OF SUGGESTIVE TOOLS FOR ENGLISH

<i>LISTENING SKILLS</i>	<i>SPEAKING SKILLS</i>	<i>READING SKILLS</i>	<i>WRITING SKILLS</i>
<ul style="list-style-type: none">• <i>narration of a story</i>• <i>comprehension tasks</i>• <i>memory games and interactive activities</i>• <i>syllable counting</i>• <i>word stress</i>• <i>tongue twisters</i>• <i>scripted conversations</i>• <i>information transfer activities</i>• <i>listen and fill in the gap of a sentence</i>• <i>true or false</i>• <i>short/long conversation</i>• <i>English pronunciation</i>• <i>listen and follow directions to complete a task</i>• <i>listen and understand stories, events, others' views and give opinions or answer questions</i>• <i>audios like dialogues, songs, rhymes</i>	<ul style="list-style-type: none">• <i>public speaking</i>• <i>debate</i>• <i>extempore</i>• <i>role play</i>• <i>skit</i>• <i>group discussion</i>• <i>story completion/telling</i>• <i>dramatization</i>• <i>language games</i>• <i>print based visual materials (posters, flashcards etc.)</i>• <i>sharing feelings and experiences with each other</i>	<ul style="list-style-type: none">• <i>picture reading</i>• <i>unseen passage/poem for reading comprehension</i>• <i>dictionary navigation</i>	<ul style="list-style-type: none">• <i>picture description</i>• <i>letter writing</i>• <i>paragraph writing</i>• <i>designing a poster</i>• <i>writing a poem</i>• <i>writing slogans</i>• <i>writing an article</i>• <i>message writing</i>• <i>book review</i>• <i>character sketch</i>• <i>note writing</i>• <i>describing a field visit</i>• <i>biographical sketch</i>• <i>drafting a questionnaire</i>• <i>dialogue writing</i>

HINDI

प्रस्तावना

शिक्षार्थियों को राष्ट्रभाषा हिन्दी का अध्यापन शिक्षण के चार कौशलों—श्रवण, कथन, पठन—वाचन, लेखन के माध्यम से इस प्रकार करवाया जाएगा ताकि शिक्षार्थी भाषा अभिव्यक्ति एवं व्यावहारिक व्याकरणिक अभ्यास कर सकेंगे। विस्तृत गतिविधि गृहकार्य में अभ्यास हेतु दी जाती है।

हिंदी भाषा शिक्षण के सामान्य उद्देश्य—

- संयुक्त वर्ण, द्वित्व वर्ण, र के विभिन्न रूपों, वर्णों से बने शब्दों का वर्ण विच्छेद कर पाएँगे।
- उपयुक्त हाव—भाव, उच्चारण तथा गति के साथ पाठ / लेख / कहानी पढ़ पाएँगे।
- कविता का भाव स्पष्ट कर पाएँगे।
- कहानी पढ़कर उसे अपने शब्दों में लिख पाएँगे।
- तुकांत शब्दों का प्रयोग कर 10 पंक्तियों वाली काव्य रचना कर पाएँगे।
- प्रश्न निर्माण कर पाएँगे।
- विभिन्न विषयों पर चर्चा कर पाएँगे।
- समानार्थी विषयों पर चर्चा कर पाएँगे।
- चित्र देखकर अनुच्छेद लिख पाएँगे।
- भाववाचक संज्ञा पहचान पाएँगे।
- अपठित गद्यांश को पढ़कर प्रश्नों के उत्तर लिख पाएँगे।
- रिश्तेदारों को पत्र लिख पाएँगे।

माह	अवधारणा	कौशल शिक्षार्थी निम्न दक्षता अर्जित कर पाएँगे:
अप्रैल	<ul style="list-style-type: none"> तुकांत कविता प्रारंभिक भाषा ज्ञान 	<ul style="list-style-type: none"> कविता का लयबद्ध गायन कविता का मूलभाव स्पष्ट करना तुकांत शब्दों के प्रयोग द्वारा काव्य पंक्तियों की रचना शब्द संपदा में वृद्धि वर्तनी सुधार शब्दों का सही उच्चारण करना स्वर, व्यंजन और वर्तनी का उचित प्रयोग कि और की, है और हैं का प्रयोग आदि
जून	<ul style="list-style-type: none"> शिक्षाप्रद कहानी व्यावहारिक भाषा ज्ञान वर्ण विचार 	<ul style="list-style-type: none"> शुद्ध उच्चारण, प्रवाह एवं भाव के साथ कहानी का पठन विषय परक प्रश्नों के उत्तर देना मूल्य परक प्रश्नों के उत्तर लिखना शब्द संपदा में वृद्धि वर्तनी सुधार अनुस्वार एवं अनुनासिक का उच्चारण एवं प्रयोग ‘ऋ’ की मात्रा का वर्ण विच्छेद
जुलाई	<ul style="list-style-type: none"> प्रकृति पर आधारित कविता एवं कहानी व्यावहारिक भाषा ज्ञान— शब्द युग्म वर्ण विचार 	<ul style="list-style-type: none"> कविता का सस्वर वाचन कविता का मूलभाव समझना कविता एवं कहानी का संदेश समझकर अपने विचार व्यक्त करना विषयपरक प्रश्नों के उत्तर देना समस्या समाधान प्रश्नों पर चर्चा एवं लेखन शब्द संपदा में वृद्धि वर्तनी सुधार चित्र वर्णन शब्द युग्मों का प्रयोग भाषा को अधिक सुंदर तथा आकर्षक बनाने के लिए पुनरुक्त शब्दों का प्रयोग ‘र’ के रूपों का वर्ण विच्छेद संज्ञा एवं सर्वनाम शब्दों का उचित प्रयोग

माह	अवधारणा	कौशल शिक्षार्थी निम्न दक्षता अर्जित कर पाएँगे:
अगस्त	<ul style="list-style-type: none"> संवाद / एकांकी व्यावहारिक भाषा ज्ञान वर्ण विचार विराम चिह्न 	<ul style="list-style-type: none"> संवादों का भावपूर्ण पठन निर्देशानुसार संवादों को लिखना वार्तालाप की मौखिक अभिव्यक्ति शब्द संपदा में वृद्धि वर्तनी सुधार संयुक्त व्यंजन का वर्ण—विच्छेद विराम चिह्नों का प्रयोग
सितंबर	<ul style="list-style-type: none"> रोचक किस्से व्यावहारिक भाषा ज्ञान संज्ञा 	<ul style="list-style-type: none"> किस्से—कहानियाँ रोचक ढंग से पढ़ना, सुनना एवं सुनाना कहानी का संदेश समझना बौद्धिक क्षमता पर आधारित प्रश्नों के उत्तर लिखना शब्द भंडार में वृद्धि वर्तनी सुधार व्यक्तिवाचक एवं जातिवाचक संज्ञा के भेद को समझना
अक्टूबर	<ul style="list-style-type: none"> भावप्रधान कहानी व्यावहारिक भाषा ज्ञान विशेषण – विशेष्य शब्द विचार कहानी 	<ul style="list-style-type: none"> शुद्ध उच्चारण, प्रवाह एवं भाव के साथ कहानी का पठन कहानी के मूलभाव को समझना मूल्य परक एवं चिंतन शक्ति पर आधारित प्रश्नों के उत्तर लिखना शब्द भंडार में वृद्धि वर्तनी सुधार विशेषण एवं विशेष्य के अंतर को समझना विशेष्य के लिए उचित विशेषण शब्दों का प्रयोग करना अनेकार्थी शब्दों के अर्थ समझकर उन्हें वाक्यों में प्रयुक्त करना संकेतों एवं चित्रों के आधार पर कहानी पूर्ण करना
नवंबर	<ul style="list-style-type: none"> प्रेरक कविता व्यावहारिक भाषा ज्ञान क्रिया उपसर्ग एवं प्रत्यय 	<ul style="list-style-type: none"> कविता का भावपूर्ण वाचन कविता के मूलभाव को समझना कविता से प्राप्त संदेश लिखना मूल्यपरक प्रश्नों के उत्तर लिखना शब्द भंडार में वृद्धि वर्तनी सुधार क्रिया शब्दों का उचित प्रयोग उपसर्ग एवं प्रत्यय के उचित प्रयोग द्वारा शब्द निर्माण

माह	अवधारणा	कौशल शिक्षार्थी निम्न दक्षता अर्जित कर पाएँगे:
दिसंबर	<ul style="list-style-type: none"> विचार प्रधान लेख व्यावहारिक भाषा ज्ञान क्रिया विशेषण 	<ul style="list-style-type: none"> लेख का पठन संबंधित विषय पर चर्चा अनुच्छेद लेखन चिंतन शक्ति पर आधारित प्रश्नों के उत्तर लिखना शब्द भंडार में वृद्धि वर्तनी सुधार क्रिया विशेषण शब्दों का रिक्त स्थानों में उचित प्रयोग करना प्रत्यय जोड़कर नए शब्दों की रचना करना
जनवरी	<ul style="list-style-type: none"> प्रेरणास्पद कहानी व्यावहारिक भाषा ज्ञान पत्र लेखन 	<ul style="list-style-type: none"> कहानी का भावपूर्ण वाचन प्रेरक कहानियाँ सुनना एवं सुनाना बौद्धिक क्षमता पर आधारित प्रश्नों के उत्तर लिखना शब्द भंडार में वृद्धि वर्तनी सुधार अनौपचारिक पत्र—मित्र एवं सगे—संबंधियों को पत्र लिखना
फरवरी	<ul style="list-style-type: none"> गीत गिनती व्यावहारिक भाषा ज्ञान वर्ण संयोजन 	<ul style="list-style-type: none"> गीतों की लयबद्ध प्रस्तुति गीत का भाव समझना मूल्यपरक प्रश्नों के उत्तर लिखना हिंदी में गिनती बोलना तथा लिखना (1 से 50 तक) वर्णों के मेल से बने शब्द पहचानना

प्रस्तावित रचनात्मक कौशल एवं गतिविधियाँ

- कहानी कथन
- अभिनय प्रस्तुति
- चित्र वर्णन
- दैनंदिनी लेखन
- वार्तालाप
- शुभकामना संदेश
- एकांकी मंचन
- एकल एवं समूह गायन
- भाषण
- परिचय देना लेना
- अनुभव सुनाना
- मंच प्रस्तुति

MATHEMATICS

OVERVIEW

In Mathematics, understanding of concepts becomes an essential prerequisite in the development of the skills. Teachers ensure that students understand the concepts before they provide real life exercises to develop Math skills. Daily practice in solving Math problems is provided for within the school timetable and extended exercise is given for practice at home every day.

OBJECTIVES OF TEACHING MATHEMATICS

By the end of Grade 4 the students will be able to:

- *Understand the use of numbers and quantities related to their daily life.*
- *Acquire mathematical concepts and skills for everyday use and continuous learning.*
- *Develop thinking, reasoning, application and communication skills through a mathematical approach to problem solving.*
- *Develop speed and accuracy in solving mathematical problems.*
- *Develop skills of data analysis and interpretation.*
- *Find different mathematical alternatives to solve problems.*
- *Read bar graph and circle charts.*
- *Find factors and multiples of any number.*
- *Understand the concept of area and perimeter.*
- *Read time accurately in a 24 - hr clock.*

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>April</i>	<i>Large Numbers</i> <ul style="list-style-type: none"> <i>Number names</i> <i>Place value system</i> <i>Expanded form</i> <i>Successor and predecessor</i> <i>Comparing and ordering</i> <i>Building numbers</i> <i>Forming greatest and smallest number</i> <i>Rounding numbers</i> <i>Roman numbers</i> 	<ul style="list-style-type: none"> <i>Read and write large numbers beyond 9,999(5 – digit –6 digit numbers)</i> <i>Identify the numbers written in Indian place value system</i> <i>Differentiate between face value and place value</i> <i>Write the successor and predecessor</i> <i>Form the greatest and smallest numbers by using the digits (with and without repetition)</i> <i>Expand the numbers</i> <i>Compare the numbers and arrange them in order</i> <i>Round the numbers nearest to 10, 100 and 1000</i> <i>Explain and apply the rules in forming the Roman Numbers till 100</i> <i>Convert the Hindu Arabic Numerals to Roman Numbers and vice versa</i>
<i>June</i>	<i>Addition</i> <ul style="list-style-type: none"> <i>Properties of Addition</i> <i>Addition of 4 and 5-digit numbers</i> <i>Missing digits</i> <i>Story sums</i> 	<ul style="list-style-type: none"> <i>Explain the properties of addition</i> <i>Add two or more 4 and 5 digit numbers with and without regrouping</i> <i>Find the missing digits in the given addition problems</i> <i>Solve the story sums based on addition</i>
	<i>Subtraction</i> <ul style="list-style-type: none"> <i>Properties of Subtraction</i> <i>Subtraction of 4 and 5-digit numbers</i> <i>Missing digits</i> <i>Story sums</i> <i>verifying</i> 	<ul style="list-style-type: none"> <i>Explain the properties of subtraction</i> <i>Subtract two or more 4 and 5-digit numbers with and without borrowing</i> <i>Find the missing digits in the given subtraction problem</i> <i>Solve the story sums based on subtraction</i> <i>Verify subtraction sums using addition</i>

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>July</i>	<i>Multiplication</i> <ul style="list-style-type: none"> <i>Explore Multiplication</i> <i>Properties of Multiplication</i> <i>Multiplication by 1-digit, 2 digit and 3 – digit numbers</i> <i>Multiplication by 10, 100 and 1000</i> <i>Story sums</i> <i>Lattice multiplication method</i> 	<ul style="list-style-type: none"> <i>Explain multiplication as a repeated addition</i> <i>Explain the properties of multiplication</i> <i>Multiply a number by 2-digit and 3 -digit numbers</i> <i>Solve the story sums based on multiplication</i> <i>Explore the lattice method of multiplication</i>
	<i>Division</i> <ul style="list-style-type: none"> <i>Division as repeated subtraction</i> <i>Properties of Division</i> <i>Division by 10, 100 and 1000</i> <i>Division by 1- digit and 2- digit numbers</i> <i>DMAS Method</i> <i>Story sums</i> 	<ul style="list-style-type: none"> <i>Explain the properties of division</i> <i>Divide a number by 10, 100 and 1000</i> <i>Divide large numbers by 1- digit and 2- digit number</i> <i>Solve sums based on addition, subtraction, multiplication and division</i>
<i>August</i>	<i>Factors and multiples</i> <ul style="list-style-type: none"> <i>Properties of factors</i> <i>Common Factors</i> <i>Test of divisibility</i> <i>Prime and Composite numbers</i> <i>Prime Factorization</i> <i>Properties of multiples</i> <i>Common Multiples and LCM</i> <i>LCM division method</i> 	<ul style="list-style-type: none"> <i>Explain the meaning of the term “factors”</i> <i>Find factors of a given number</i> <i>Find the highest common factors of two or more numbers</i> <i>Apply the divisibility tests(2,4,6,9 and 10)</i> <i>Write the prime factorization of any number using factor tree method</i> <i>Explain the meaning of the term “multiples”</i> <i>Find multiples of a given number</i> <i>Find the common multiples and least common multiple of two or more numbers by listing multiples</i>
<i>September</i>	<i>Fractions</i> <ul style="list-style-type: none"> <i>Understanding Fractions</i> <i>Equivalent Fractions</i> <i>Reducing the Fractions to lowest terms</i> <i>Types of Fractions</i> <i>Addition & Subtraction of Like Fractions</i> <i>Fractional part of a Whole number</i> <i>Conversion</i> 	<ul style="list-style-type: none"> <i>Discuss the examples of fractions in every day situations</i> <i>Explain the meaning of equivalent fractions</i> <i>Find the equivalent fractions of the given fractions</i> <i>Reduce the fractions to lowest term</i> <i>Explain and identify the different types of fractions</i> <i>Add and subtract like fractions</i> <i>Solve the “of” operation sums</i> <i>Conversion from mixed to improper and vice versa</i>

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
October	Decimals <ul style="list-style-type: none"> Decimal place value chart Reading Decimal Numbers 	<ul style="list-style-type: none"> Use of decimal numbers in daily life situations - Money Read and write the decimal numbers correctly
	Money <ul style="list-style-type: none"> Expressing Money using a decimal point Addition and Subtraction of Money Multiplication and Division of Money Story sums Preparing a bill 	<ul style="list-style-type: none"> Express money in terms of rupees and paise Solve the sums based on addition and subtraction of money Solve the sums based on multiplication and division of money Solve the story sums based on money
November	Data Handling <ul style="list-style-type: none"> Recapitulation of pictograph Draw and read pictograph Bar graph Interpreting data 	<ul style="list-style-type: none"> Work in groups to collect and record the data Represent the data through pictograph Answer the questions based on the pictograph and bar graph Draw bar graph
December	Shapes and space <ul style="list-style-type: none"> Lines and Shapes Open and Closed Shapes Polygons Circle Recapitulation of solid shapes Properties of solid shapes Symmetry and patterns <ul style="list-style-type: none"> Reflection and Symmetry Tessellations and Patterns 	<ul style="list-style-type: none"> Recapitulate the concept of point, line, line segment and ray Measure and draw the line segment Draw the polygons Identify parts of the circle Draw a circle using a compass with the given radius Identify symmetrical objects / shapes Draw line of symmetry Number pattern and tiling pattern
January	Measurement <ul style="list-style-type: none"> Measurement of length, weight and capacity Conversion of different measuring units Addition and Subtraction of different units of measurement 	<ul style="list-style-type: none"> Measure the length of objects using ruler Convert bigger units to smaller units and vice versa Add and subtract different units of length, mass and capacity
	Perimeter & Area <ul style="list-style-type: none"> Perimeter and Area of regular and irregular shapes Perimeter and area using formula 	<ul style="list-style-type: none"> Find perimeter of irregular shape using a string Find perimeter of regular shapes by adding all the sides of the shapes Find the area of the shapes drawn in a square grid

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>February</i>	<i>TIME</i> <ul style="list-style-type: none"> <i>Reading time in exact minutes</i> <i>Conversion of time units</i> <i>Use of A.M and P.M</i> <i>Conversion of 24-hour clock to 12-hour clock time and vice versa</i> <i>Calculate elapsed time /finishing time for an activity</i> <i>Calendar</i> 	<ul style="list-style-type: none"> <i>Recapitulate reading and writing of time in a.m. and p.m.</i> <i>Read & write the time in minutes past and minutes to</i> <i>Convert hours to minutes and vice versa, minutes to seconds and vice versa</i> <i>Read the time in 24-hour clock time and Convert 24-hour clock time to 12-hour clock time and vice versa</i> <i>Find the elapsed time and finishing time</i> <i>Find the number of days between two days</i> <i>Find the date before/after some dates</i>

LIST OF SUGGESTIVE TOOLS FOR MATHEMATICS

- Chart Making*
- Data Collection*
- Educational Games*
- Group Activities*
- HOTS*
- Lab Activities*
- Life Skills*
- Oral Questions*
- Pen - Paper Test*
- Problem Solving*
- Project (Group / Individual)*
- Quiz*
- Research*
- Exhibition*

EVS

OVERVIEW

Today we are in an age of explosion of information. In this context memorization of content in EVS is a futile exercise. The scientific skill i.e. the skills of observation, inquiry, recording, investigation, analysis, hypothesis and drawing conclusions etc. are the key scientific skills that can be extrapolated to the study of other subjects. EVS helps the students to understand the complex integration of social institution and phenomenon and to trace how civilization and social institution have developed. This enables them to become proactive citizen and empowered individuals who have a deeper understanding of their own complex environment as they have evolved through centuries, not just of their local environmental studies but also of the world. Extended activity is given for practice at home.

OBJECTIVES OF TEACHING EVS

By the end of Grade 4 the students will be able to:

- *Develop an understanding of the world based on observation, recording and drawing conclusions*
- *Develop the ability to inquire independently and understand the basic principles related to various topics*
- *Understand and explain the complex relationships between the physical, natural, social and cultural environment*
- *Function effectively as a member of the community, family and as a citizen*
- *Get awareness about environmental issues and participate in improvement and protection of environment*
- *Distinguish between the organs*
- *Explain the meaning and importance of 4R's*
- *Draw and label the solar system*
- *List a few types of clusters*
- *List and describe the types of flowers*
- *Understand need of society and related skills*

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>April</i>	Family <ul style="list-style-type: none"> Relationships Family bond Adoption and foster parents Extended family Fun with family 	<ul style="list-style-type: none"> Observe, discuss and correlate the concept of family bond Survey, record and classify the data Define foster parents and extended family Make a chart to show his/her relationship with the family members and tell about his/her fun time
	People and their skills <ul style="list-style-type: none"> Vocational training Some interesting professions 	<ul style="list-style-type: none"> Discuss, observe and write the summary of different types of vocational trainings Search, list and describe the types of professions Solve a puzzle Perform interdisciplinary activity
<i>June</i>	Safety Rules <ul style="list-style-type: none"> In school In the playground At Home While swimming On the road Kinds of touch - Good touch, Bad touch 	<ul style="list-style-type: none"> Investigate, analyze, record and apply the safety rules in his/her daily routine Explain these rules Identify different kinds of touch Differentiate between good touch and bad touch
<i>July</i>	The Amazing World of Plants <ul style="list-style-type: none"> Parts of a plant Functions and uses of different parts of a plant Flowers Uses of flowers People living in forests 	<ul style="list-style-type: none"> Draw and label different parts of a plant Identify the vegetables as a root or a stem List, explain and write the functions of different parts of a plant Search, list and describe the types of flowers Collect, classify and record the data
<i>August</i>	Waste –Management <ul style="list-style-type: none"> Urban & rural waste Biodegradable & non-biodegradable wastes Disposal of waste 4R's 	<ul style="list-style-type: none"> Identify and separate materials on the basis of their disposal Distinguish between biodegradable and non biodegradable wastes Explain the meaning and importance of 4R's

	<i>Water –A Necessity</i> <ul style="list-style-type: none"> • <i>Water conservation</i> • <i>Water cycle</i> • <i>Evaporation and condensation</i> • <i>Make water safe for drinking</i> 	<ul style="list-style-type: none"> • <i>Search, record and describe the ways to conserve water</i> • <i>Explain water cycle and draw its diagram</i> • <i>Distinguish between evaporation and condensation</i> • <i>State the ways to make water safe for drinking</i>
<i>September</i>	<i>Animal world</i> <ul style="list-style-type: none"> • <i>Natural habitat</i> • <i>Nocturnal animals</i> • <i>Draught animals</i> • <i>Animal powered transport</i> • <i>Social behavior</i> 	<ul style="list-style-type: none"> • <i>Investigate, discuss and classify animals on the basis of their habitat</i> • <i>Solve the riddles</i> • <i>Discuss, compare and tell changes from past to present</i> • <i>Feel compassionate and empathize with animals</i> • <i>Describe the behaviour of different animals</i> • <i>Make a chart on animal habitat</i> • <i>Search, discuss and record the data</i>
<i>October</i>	<i>Food</i> <ul style="list-style-type: none"> • <i>Community eating</i> • <i>Journey of food</i> • <i>Healthy food vs junk food</i> • <i>Food groups</i> 	<ul style="list-style-type: none"> • <i>Distinguish different food groups</i> • <i>Recall, relate and discuss his/her experiences of a family get together in the class</i> • <i>Describe the journey of food from farm to our plates</i> • <i>Search, discuss, compare and analyze the importance of healthy food</i>
<i>November</i>	<i>Physical and Mental Fitness</i> <ul style="list-style-type: none"> • <i>Playing together</i> • <i>Games we play</i> • <i>Exercises</i> • <i>Yoga & meditation</i> 	<ul style="list-style-type: none"> • <i>Understand and explain the importance of games and exercises in our lives</i> • <i>Search and discuss the rules of different games</i> • <i>Discuss and write the importance of team spirit</i> • <i>Tell benefits of yoga asanas discussed</i>
	<i>Oral hygiene</i> <ul style="list-style-type: none"> • <i>Mouth</i> • <i>Kinds of teeth</i> • <i>Taking care of teeth</i> • <i>Tongue and its care</i> 	<ul style="list-style-type: none"> • <i>Search, discuss and apply the ways for taking care of mouth, teeth and tongue</i> • <i>Draw & label different kinds of teeth in human beings</i> • <i>Tell and write the functions of different types of teeth</i>

<i>Month</i>	<i>Concepts</i>	<i>Skills</i> <i>The student will be able to:</i>
<i>December</i>	<ul style="list-style-type: none"> • <i>Mapping Our Neighbourhood</i> • <i>Landmarks</i> • <i>Types of maps</i> • <i>Sketch</i> • <i>Directions and sub-directions</i> 	<ul style="list-style-type: none"> • <i>Discuss and write difference between a sketch and a map</i> • <i>Describe different types of maps</i> • <i>Draw a sketch</i> • <i>Search, discuss and draw conclusion regarding the importance of maps</i>
<i>January</i>	<i>Travel and Currency</i> <ul style="list-style-type: none"> • <i>Paying for travel</i> • <i>Currency</i> • <i>Currency symbols</i> • <i>Road signs</i> 	<ul style="list-style-type: none"> • <i>Search, analyze and draw conclusions regarding differences in the fare for various means of transport</i> • <i>Identify and label the currency and its symbol</i> • <i>Draw common road signs and write their significance</i>
<i>February</i>	<i>Houses</i> <ul style="list-style-type: none"> • <i>Comparison of rural and urban areas</i> • <i>Slums in urban area</i> • <i>Building materials & tools</i> • <i>Types of bridges</i> 	<ul style="list-style-type: none"> • <i>Compare and write the difference between houses of rural and urban areas</i> • <i>Investigate, record and describe the slums</i> • <i>Observe, discuss and write the materials used to build a house</i> • <i>Define and differentiate the types of bridges</i>

LIST OF SUGGESTIVE TOOLS FOR ENVIRONMENTAL STUDIES

- *Observations*
- *Oral Questions*
- *Practical Activities*
- *Role Play*
- *Dramatization*
- *Stories to assess the values, attitudes and habits*
- *Pen -Paper Test*
- *Group Discussion*
- *Data Collection*
- *Quiz*
- *MCQs*
- *Hands on Activities*
- *Experiments*
- *Making Power Point Presentation*
- *Making models and explaining the related concepts*

COMPUTERS

OVERVIEW

In this age of Information technology computers are being used in almost every aspect of human existence. The students will use Information Technology as a tool for learning.

OBJECTIVES OF TEACHING COMPUTERS

By the end of Grade 4 the students will be able to:

- *Develop understanding and skills in the use of common software platforms.*
- *Create awareness and ethics related to usage of technology.*
- *Identify the basic components of hardware and how to use it.*
- *Learn to use computers to draw and write, to create, open and close documents and save them.*
- *Students will learn and demonstrate standards of professional behavior, including netiquette.*
- *Use productivity tools to collaborate in constructing models through technology and produce other creativity work.*
- *Demonstrate the ability to give an effective presentation using visual aids and / or software demonstrations.*
- *Learn and demonstrate standards of professional behaviour, including netiquette.*
- *Analyze a simple problem and describe procedures to solve that problem.*
- *Explore computer technologies and recognize the value of computer skills for future education and employment.*

<i>MONTH</i>	<i>CONCEPTS</i>	<i>SKILLS</i> <i>The students will be able to:-</i>	<i>ACTIVITY</i>
<i>April</i>	<i>Understanding Word Processing tools</i>	<ul style="list-style-type: none"> • Select, copy, cut the text • Use bold, underline, italic options • Change font style, size, colour • Count the word • Highlight text • Use alignments • Add the pictures • Use clip art • Bullets and numbering • Save the document 	<ul style="list-style-type: none"> • To create a slogan on the given topic • To design a cover for the school magazine using the features of Word Processing • To write ten lines on the given topic and format the paragraph as directed • To use word art in different styles and to insert page numbers at suitable places in document
<i>June</i>	<i>Creating tables in Office Package</i>	<ul style="list-style-type: none"> • Create tables • Modify tables • Format tables 	<ul style="list-style-type: none"> • To create a table in Word Processing, giving details about your friends and save it
<i>July</i>	<i>Introduction to Presentation</i>	<ul style="list-style-type: none"> • Create a new presentation • Edit a slide • Format a slide • Apply design themes • Use text alignment 	<ul style="list-style-type: none"> • To create a presentation on 'My School' • To make changes in the presentation on 'My School' in Power Point Presentation
<i>August</i>	<i>Editing and Formatting slides</i>	<ul style="list-style-type: none"> • Create a presentation using a template • Use bullets and numbering • Add graphics in presentation • Rearrange a slide • Set up slide show • Apply animation and Transition • Run the slide show 	<ul style="list-style-type: none"> • To create a presentation and apply transition effects and sound
<i>September</i>	<i>Programming Language- LOGO</i>	<ul style="list-style-type: none"> ◆ Use Logo commands like :- <ul style="list-style-type: none"> ➤ Pen up, pen down ➤ Pen erase, pen normal commands ➤ Hide turtle, show turtle, repeat command ➤ Set pen size, pen colour commands ➤ Fill colour, set screen colour 	<ul style="list-style-type: none"> • To create a face of a clown using various Logo commands • To colour the clown using Logo commands
<i>October</i>	<i>Logo- Text commands</i>	<ul style="list-style-type: none"> • Use some more commands in Logo:- <ul style="list-style-type: none"> ➤ Make ➤ Show ➤ Print label 	<ul style="list-style-type: none"> • To give the output of the given set of commands • To create the given pattern using commands studied in Logo
<i>November</i>	<i>Logo- Arithmetic commands</i>	<ul style="list-style-type: none"> • Use arithmetic operators like + - * / • Use operator commands 	<ul style="list-style-type: none"> • To print the result of the given arithmetic operations in Logo

<i>MONTH</i>	<i>CONCEPTS</i>	<i>SKILLS</i>	<i>ACTIVITY</i>
<i>December</i>	<i>Introduction to Scratch</i>	<ul style="list-style-type: none">• <i>Scratch Window Interface</i>• <i>Components of Scratch window</i>• <i>Blocks in Scratch</i>• <i>Adding Extension</i>• <i>Saving a project</i>	<ul style="list-style-type: none">• <i>Open a new project.</i>• <i>Change the sprite to cat to butterfly</i>• <i>To apply background to the stage.</i>• <i>Move the sprite forward and backward.</i>
<i>January</i>	<i>Movements of a Sprite</i>	<ul style="list-style-type: none">• <i>Changing the appearance of a sprite</i>• <i>Make sprite say something</i>• <i>Control blocks menu.</i>	<ul style="list-style-type: none">• <i>Change the costume of the sprite.</i>• <i>Make a project to say something on saving energy by the sprite</i>
<i>February</i>	<i>Create shapes in Scratch</i>	<ul style="list-style-type: none">• <i>Pen Blocks</i>• <i>Adding Pen Blocks</i>• <i>Uses of Pen Blocks</i>• <i>Drawing various shapes</i>	<ul style="list-style-type: none">• <i>Create various Polygons</i>• <i>Create a color wheel using pen commands</i>