

## Grade 5 – Learning Area specific course descriptions

### ENGLISH

In Grade 5 English, students continue to learn words and apply skills learnt to decipher implicit and explicit meanings in a variety of texts. They will explore the usage of word roots, prefixes and suffixes. When writing, students will be able to select appropriate grammatical devices and use accurate spelling and punctuation. Students refine their work by editing and redrafting, and are able to write formal and informal pieces. Their unit end reminiscences will be compiled together.

Students become familiar with a range of fictional and nonfictional texts and are able to analytically review them. They will develop as active and articulate readers. Text will be studied in greater detail than previous grades, as students explore different parts of it. Students speak confidently, make effective contributions in group and classroom discussions, respect and respond to others' view. In addition to speaking, their listening skills will also continue to be honed.

### MATHEMATICS

By the end of Grade 5, students are more in tune with their number sense and mathematical confidence. In addition to working with large numbers, they delve deeper into the concepts of factors, multiples, fractions, decimals and ratio.

Students learn more about graphing data and statistics and familiarize with area and volume of different shapes. These units supplement the subject's daily skills such as place value, addition, subtraction, multiplication, and division.

### SCIENCE

The Science Curriculum in Grade 5 introduces discipline focused topics like physical and chemical changes in matter, energy and matter flows in ecosystems. Students will learn about the larger Earth systems and how they affect one another and build an understanding of space systems.

Students also have multiple opportunities to engage in meaningful learning experiences with the particulate nature of matter and the ideas behind conservation.

Students are prepared to put their knowledge to work by investigating various life and earth systems.

As part of the curriculum, students participate in a design thinking challenge to develop solutions to real world problems using engineering practices.

### SOCIAL SCIENCE

The Grade 5 curriculum focuses on students' geographical knowledge of India and the world as they also explore the continents of Europe and North America.

Students study the impact of the rise of Empires in Ancient India (Guptas and Mauryas) and in the Mediterranean World (Greeks) and consequences of India's contact with the West.

Additionally, they will examine how the characteristics of different environments are influenced by humans at places like Europe and North America, throughout the history of man. The curriculum introduces the students to India's democratic values, its electoral system and law enforcement.

### SECOND LANGUAGE – HINDI\*

By the end of Grade 5, students understand the use of basic written and spoken grammatical structures such as part of speech, gender (vachan), tenses, declinable words (vikaari shabd). They will be able to communicate with their teachers and peers using small sentences in Hindi.

The curriculum encourages students to familiarize with the language by narrating stories and enacting role plays with simple dialogues. Students begin to read and follow short forms of Hindi literature – fiction, nonfiction and poems that highlight how the language is used based on context and situation. Students will also explore spellings of high frequency words and write picture compositions with relatively longer sentences.

### COMPUTER SCIENCE

By the end of Grade 5, students learn to use Google Apps to create and send emails, share files through Google Drive and use Google Classroom to view and turn in assignments. They become aware about Internet safety and validation of information found on the internet. They trace the history and evolution of computing devices.

Students get an introduction to Scratch programming. They learn to construct sequential and conditional blocks in Scratch and build simple games using Scratch. Students will also continue to learn additional features in Word. They explore spread-sheets and its use to collect, format and display data. Students learn about Read Only Memory and its classification. They solve simple problems using algorithms and flowcharts. Students are introduced to Python programming language. Practical Skills:

- Create sequential programs, event based animations and simple games in Scratch.
- Research and gather information on given topics using internet.
- Add mathematical equations, symbols, superscripts, subscripts and hyperlinks in documents.
- Use MS PowerPoint to create slideshows.
- Enter, format and display data and use features autosum and autofill in a spreadsheet.
- Open, read, write and send emails.
- Use Google Apps to create, modify, share information and collaborate with peers.
- Construct solutions to simple programs using sequential and conditional statements in Python.

### READING

Grade 5 Reading program fosters the love for literature in students by expanding the foundational skills through literature discussions, genre studies and independent, guided and shared reading.

### VISUAL ARTS

The curriculum under visual arts is designed to stimulate creativity and imagination among students and hone their artistic skills. Students get to experience various types of media, explore different kinds of art and their techniques. They learn the fundamentals of art and design, gain experience with tools, materials and techniques required for making the art, master the required concept and skills.

### PERFORMING ARTS

Through the music curriculum under performing arts, the students develop interest and appreciation towards music. Students learn to differentiate genres, familiarize with famous songs, analyse lyrics and sounds. Higher grades learn how to differentiate between pitch and rhythm while exploring how pattern and repetition work in music. Across all grades, the music curriculum encourages students to express their creativity and talent through classes and competitions.

### THIRD LANGUAGE

Grade 5 curriculum offers Kannada or Sanskrit as the third language~. The third language curriculum helps students with the skills of listening, speaking, reading and writing in a variety of contexts and trains students to be able to adapt language to suit different tasks, audiences and purposes. It aims to develop confidence in the students so that they can communicate in the language effectively.

It helps the students work on their ability to critique - to analyse and evaluate diverse texts, thereby, questioning ideas and articulating their point of view.

~Learning third language from Grades V to VIII is mandatory for students as per CBSE guidelines.

### LIFESKILLS

Life-skills in primary school, encourages students to adopt habits of the mind and heart. Through these, they learn to work independently, develop self-discipline, express emotions appropriately and become confident, resilient and adaptable learners. Students identify personal capabilities – gain and use knowledge, ask questions, clarify concepts and ideas, seek possibilities, consider alternatives and solve problems. They learn how to show respect, how to be considerate and understanding of other’s perspectives, emotional states and needs. The program helps students to develop social and emotional skills, learn to manage themselves, relate to others, develop a sense of self-worth, resolve conflict, engage in teamwork and feel positive about themselves and the world around them- i.e. in their daily life, society and the environment.

### OTHER

Students in Grade 5 also attend weekly sessions in Yoga, Physical Education, Outdoor games and quiet reading time at the school library.