

Grade 6 – Learning Area specific course descriptions

ENGLISH
<p>By the end of Grade 6, students understand how the use of text structures can represent ideas, characters, and events and achieve particular effects. They use accurate spelling, punctuation and grammatical devices for clarity.</p> <p>Students will be able to tell the difference between literal and implied meanings of text after thorough comparison and analysis. They select and use evidence from a text to explain their response to it. They also participate in discussions – clarifying their content and challenging ideas shared by peers. Students contribute actively to class and group discussions, and are able to firmly state their points of view, orally as well as in writing. Having studied poetry from different parts of the world, they are able to write their own poems which they will present in the form of an anthology.</p>
MATHEMATICS
<p>By the end of Grade 6, the students’ computation skills with whole numbers, decimals, and fractions will be further developed and reinforced. Students will understand the concept of ratio and proportion, and apply these skills in real-life scenarios. They study graphs and assess the data given.</p> <p>Students also apply measurement skills, conversion of units, and the principles of area in the study of basic geometry. Algebra readiness skills are integrated through the course.</p>
SECOND LANGUAGE – HINDI*
<p>By the end of Grade 6 students begin to understand longer sequence of classroom instructions, presenting their thoughts using appropriate connectors. In addition to this, they will be able to read a set of punctuated texts and give a summary of what others speak.</p> <p>Students adapt to newer Hindi language resources that prepares them for higher communicative and functional demands of the language. They will be able to link sentences into a coherent paragraph, write small scripts for a role play activity. They demonstrate understanding of how the choice of vocabulary and images affects meaning of text. Students use classroom resources such as pictures, textbooks as well as other resources like members of the family to facilitate learning.</p>
BIOLOGY
<p>In Biology the students revise and study in greater detail the characteristics of living things, the differences between plants and animals, and vertebrates and invertebrates. Students become familiar with the divisions of the plant kingdom and study the structures and functions of various parts of plants- roots, stems, leaves, flowers, fruits, and methods of fruits dispersal. They also gain elementary knowledge about rock, fossils and fossil fuels.</p>

CHEMISTRY

The Chemistry curriculum introduces the students to laboratory apparatus and its use. The students learn about the properties and differences in the various states of matter and their inter-conversion. Additionally, they gain basic knowledge about atoms, molecules and compounds. They study properties and uses of air and water in detail, as well as their pollution, its effects, and prevention. By the end of the Grade 6 they will also explore fossils, rocks and minerals in adequate detail.

PHYSICS

In Physics the students will learn about the tools of fundamental measurements of various physical quantities. They study forces and energy in reasonable detail, as well as simple machines and magnets.

HISTORY

The Grade 6 curriculum focuses on the meaning and need to study history. Students are also introduced to the concept of sources, analysing them to compare information and points of view in the past and present. They will trace the evolution of mankind, the discoveries and inventions made across history.

Students will also get to explore the reasons behind the rise and fall of civilizations. They examine early migration, settlement patterns, significant events and the political, social, cultural and economic developments in ancient India. They explore what life was like for different groups of people in ancient India and the reasons for their actions – wars, adopting certain practices and the rise to two major religious beliefs in India-Jainism and Buddhism.

GEOGRAPHY

By the end of Grade 6 students will have a better understanding of the universe and its major constituents. They also explore the different tools that are used to study the subject as they explore India as a country – the climate, natural vegetation, its wildlife and physical environment.

CIVICS

Grade 6 Civics introduces the students to the social and political life in India as they learn more about democracy, laws, citizenship, diversity and identity. Drawing on familiar contexts and personal experiences of fair play, different points of view, rules and consequences, and decision-making, students begin to develop an understanding of democracy as rule of the people, by the people, for the people. Students will also explore how individuals, including themselves, participate in and contribute to their community.

THIRD LANGUAGE

Grade 6 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.

COMPUTER SCIENCE

The curriculum encourages students to discuss the importance of personal privacy and impacts of technology. They manipulate data, create and interpret charts in spread-sheets. They describe RAM, its uses and classification. Students explore the image editing software, paint.NET.

Students also learn to solve problems using flowcharts and create program solutions using sequential, conditional and loop statements in Python. They identify different types of software and classify them based on the functions and based on the distribution rights of the software.

Students will also create animations using Vectorian Giotto.

Practical Skills:

- Collect and enter data in spreadsheets.
- Manipulate data using Goal seek in spreadsheets.
- Import images, use editing options such as crop, resize, auto-level adjustments, cloning and artistic effects in paint.NET.
- Write and execute Python programs using sequential, conditional and loop constructs.
- Create simple animations using motion and shape tweens, symbols, buttons and movieclips in Vectorian Giotto.
- Create slideshows and documents on given topics.
- Research and gather information on given topics using internet.
- Use Google Apps to create, modify, share information and collaborate with peers.
- Construct solutions to simple programs using sequential and conditional statements in Python.

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.

WORK EDUCATION

Work Education is viewed as a group of purposive and meaningful activities, organized as an integral part of the learning process. Through this, students attain the right values, habits and ethics to be observed at a workplace. Besides the pleasure of self-fulfilment, it also ensures effective community service.

Work Education helps students gain a deeper understanding of themselves and empathy and respect for others. It further enables the students to discover their real interests and aptitude and also helps them in becoming self – reliant in meeting their day-to-day needs.

LIFESKILLS

The life-skills curriculum in Middle is modelled off habits of the mind and heart, used by both students and teachers. This helps students develop a realistic sense of their personal abilities, qualities, strengths and the factors that influence and affect their emotional responses.

Students participate in discussions on real life situations and understand how to tackle such instances – learning how to deal with roles and responsibilities, importance of team work, etc. Students are able to express themselves freely in a positive and safe environment.

Through role plays and activities, they learn to show respect for and understand others' perspectives. As learners, they manage and monitor their own emotional responses, and persist in completing tasks and overcoming hurdles.

OTHER

Students in Grade 6 also attend weekly sessions in Yoga, Physical Education, Outdoor games and quiet reading time at the school library.