

Grade 7 – Learning Area specific course descriptions

ENGLISH

By the end of Grade 7, students demonstrate understanding of how the choice of language features, images and vocabulary affects meaning, along with the audience, purpose and context. They study a text in great detail and identify the various devices used by the author to achieve different effects.

Students will also explain issues and ideas from a variety of sources, based on supporting evidence and implied meaning. They select specific details from texts to develop their own response, recognizing that texts reflect different viewpoints. They listen for and explain different perspectives in texts. As per the curriculum, students compile and publish a class magazine. They understand how the selection of a variety of language features can influence an audience.

Students create texts showing how language features and images from other texts can be combined for effect. They will make presentations and contribute actively to class and group discussions and debates, using language features to engage the audience.

MATHEMATICS

In Grade 7, the Mathematics curriculum emphasizes further on number skills and theory, measurements and rational numbers. Students explore problem solving techniques and approaches. Students familiarize statistical graphs, variables, patterns used in mathematics, concepts of geometry and the area of regular and irregular figures. They are introduced to commercial arithmetic and the concept of probability.

SECOND LANGUAGE – HINDI*

By the end of Grade 7 students are more confident to read and follow longer poems, fiction and nonfiction texts. They will practise speaking fluently and clearly at an appropriate pace and word capacity, develop coherent arguments, supported by reason and examples.

The curriculum encourages students to narrate simple experiences, describe objects and people, report events to peers. They make presentations and contribute actively to class and group discussions, using language features to engage their audience.

Students will work in solo, be paired and grouped for assignments, role plays and debates. They will be able to use prefixes - suffixes, varn vichched and employ effective strategies in spelling and reading. In addition to recognizing and responding to the types of punctuation marks, students will also be able to make use of a few parts and figures of speech while writing. They identify and understand the main ideas, viewpoints, themes and purposes in a text.

BIOLOGY

In Biology, students begin with the study of organisation of living things, cells, organelles and their functions. They learn about different unicellular organisms like bacteria fungi protozoa and viruses, their structures and use or harm to other life. They get to explore more about multicellular organisms, specialisation of cells and division of labour. Students gain a better understanding of life processes like nutrition, dentition, respiration, excretion and the skeletal system. They will also study the movements in plants.

CHEMISTRY

The Chemistry curriculum continues the study of basic chemistry, with the students learning about atoms and molecules, valency and compound formation in greater detail. They will also study about plastics and polymers, and soaps and detergents, along with a detailed study of air and its constituents.

PHYSICS

In Physics, students continue to study about measurements of various physical quantities. They begin a fairly detailed study of basic aspects of motion, light, heat, sound and electricity by this grade.

HISTORY

Grade 7 curriculum introduces students to an expansive chronology since ancient times to understand broad patterns of historical change. They examine the influence of geography in determining the history of a land – helping them understand the history of medieval India. Students apply these understandings in the study of the Sultanate and Mughal period in India as well as the political changes that followed after their decline. They will explore what life was like for different groups of people during this period. They investigate the monuments and other artefacts to understand the rise of the Indo-Islamic era and its influence. Students will also examine the social changes in tribal and nomadic communities in India, the rise of the Bhakti and Sufi movement and the growth of regional cultures.

GEOGRAPHY

By the end of Grade 7 students will be able to distinguish between the different elements of environments – both natural and man-made with their individual characteristics.

The curriculum provides opportunities to develop students' understanding of the meaning of environment and its features. It also focuses on students' understanding of sustainability, the capacity of the environment to sustain human life and wellbeing, as they examine the factors that sustain life on earth.

Students explore the features and functions of environments that support humans and other living beings, thus assess the causes of environmental degradation. They explore the interior of the Earth and the internal and external forces that make Earth a dynamic planet. They will also learn the importance of the atmosphere and hydrosphere, analyse the changes that determine the elements of weather and climate. Students investigate the features and functions of environments that support humans and other living things.

CIVICS

Grade 7 Civics focuses on students' understanding of democracy – going in depth on the need for it, the types of democracy and the history behind it. Students explore the limits and requirements of this political system. They also investigate the institutions that represent democracy and understand the role that the media plays in this democracy. The role of the State Government is also outlined in detail. Students become aware about the realm of advertising, the gender issue and the need to change bias. They also examine the term market and the dynamics of the system.

COMPUTER SCIENCE

By end of Grade 7, students will analyse the use of Creative Commons licences for sharing information online. They learn to classify computer peripherals and discuss popular peripherals in use.

Students get an introduction to Electronics. They will be able to identify Arduino Uno board components and other electronic components, determine resistance values and build simple series and parallel circuits. They discuss the hazards of working with electricity.

Students use HTML to create websites. They also create and publish websites using Google Sites. Students describe and analyse searching and sorting algorithms. Students also learn about the need for databases, database management systems and use MS Access to create and maintain databases. Practical Skills:

- Use resistors, power supply and LEDs to build simple series and parallel dc circuits.
- Use Google apps to create and share information and collaborate with peers.
- Create, open, save and retrieve databases.
- Create queries, forms and reports for a database using MS Access.
- Demonstrate how standard searching and sorting algorithms work using a text based or a visual programming language.
- Construct HTML code to create websites with text, images and suitable layouts with the help of tables and hyperlinks.

Create websites with multimedia content using Google Sites.

THIRD LANGUAGE

Grade 7 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.

*Please check school specific second and third language options. Learning third language from Grades V to VIII is mandatory for students as per CBSE guidelines.

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