

Grade 2 – Learning Area specific course descriptions

ENGLISH

By the end of Grade 2, students begin to read and comprehend the components of fiction, non-fiction, and poetry. They use a variety of strategies for decoding unrecognized words, including segmenting into individual sounds, separating into syllables, using analogy, identifying known suffixes and prefixes, applying known spelling rules, visual memory and contextual cues. They begin to scan a passage to find specific information.

Students identify the primary purpose or gist of a text. They read and spell high-frequency words, forming all letters correctly and using joined up writing. They speak clearly and confidently on a range of contexts. Students begin to build up handwriting speed, fluency, and legibility. They write portraits of a character, stories, and poems with the help of organizational rubrics, drafts and attend to spelling, mechanics, and presentation.

MATHEMATICS

The Grade 2 Math curriculum is based on mastery with its focus primarily on conceptual understanding. The Math Program uses the Concrete > Pictorial > Abstract approach, emphasising on the student's development of mathematical abilities and problem solving. Five interrelated components that support the development of problem solving abilities: concepts, skills, processes, metacognition, and attitudes.

By the end of Grade 2, students will learn to count numbers up to 1000. They perform operations of addition and subtraction within 1000. Students attempt to solve word problems involving the operations of addition and subtraction. They progress to multiplication and division of numbers using pictures. Multiplication tables of 2, 5 and 10 will be introduced followed by tables of 3 and 4. Students will also learn to solve word problems involving multiplication and division. New concepts in measurement, spatial awareness, time and fractions are introduced as well. Students will also learn to perform calculations with money and learn how to interpret picture graphs.

SCIENCE

The overarching theme in the Grade 2 Science is that a “variety of objects, organisms, and systems are made up of parts”—an idea that applies to the Physical, Life, and Earth and Space sciences, as well as Engineering Design. The units are planned for 8-10 weeks each and are made up of multiple subunits to help students develop deeper understanding of topics.

Unit 1 in Physical Science focuses on the different kinds of matter and their observable properties and how some changes caused by heating and cooling can be reversed and some cannot. Unit 2 is based on Life Sciences, and emphasizes the need of plants, how they depend on animals for seed dispersal and pollination, and the diversity of life found in different habitats. In Unit 3 Earth and Space Sciences, the emphasis is on wind and water, their roles in shaping the Earth's surface, and how humans can limit their effects. Students also learn that some events on Earth occur very quickly, while others can occur very slowly.

Each unit in this grade also has a focus Cross Cutting Concept, building on student understanding from previous years. Unit 1 focuses on concept of Systems and its parts Unit 2 focuses on Structure and Function and Unit 3 focuses on Cause and Effect.

SOCIAL SCIENCE

The Year 2 curriculum extends context for study beyond 'the personal' to 'the world' and to near and distant places that students are familiar with or aware of. Students explore change and continuity in the past and present within a range of concepts like places, communities, technology, landscapes, environment, climate, etc. Students will identify signatures of the past in their local area and comprehend that the study of the past is linked to lives of people and their interactions with each other and places around them. They interpret the concept of location by exploring where they are located in the world and how the world is represented on maps. Through a study of technological change, students see how they are both similar and different to people in the past and how they are connected to places near and far. The idea of stewardship is introduced as students think about how people are to be responsible for their actions even if it doesn't affect their immediate surroundings.

SECOND LANGUAGE – HINDI/KANNADA

By the end of Grade 2, students begin to read and write short sentences with little or no guidance. They are able to ask and respond to basic questions about themselves and their surroundings with short basic descriptions about themselves, their family members and friends. . Students read and spell few high frequency words correctly and are able to identify word meanings, synonyms and antonyms.

Students will be capable of understanding some specific information and detail of short, supported talk. They begin to build up speed and legibility in handwriting. Through contextual clues they will be able to predict content and meaning of short stories and poems with guidance.

On grammar level students will be able to use determiners, demonstrative pronouns, adjectives and conjunctions in sentences. They will be able to read and write Hindi numbers from 1-10 along with names of Days and Months.

COMPUTER SCIENCE

Students understand that any work done can be related to Input-Process-Output cycle. They infer that input/output into/from a computer is done using specific devices. They comprehend that computers are suited for memory intensive and repetitive tasks and computers require exact instructions in order to complete a task. Students learn about the responsibilities of being a digital citizen. They solve simple logical problems and present data visually. They explore sequences and patterns. They design simple instructions to make an object move to a target. Students learn about digital image representation and the concept of pixels. They get an introduction to real world networks. They demonstrate image editing skills using Paint and text editing skills using MS Word. They get familiar with touch typing.

Practical Skills:

- Open, edit, save and retrieve documents.
- Use formatting, font options, edit options in text editor.
- Identify underlined words in text editor as words that could be grammatically wrong or misspelt.
- Use Color 1 and Color 2, Outline, Size and Brushes in image editor.
- Practise touch typing using Top row, Home row and Bottom row keys.

READING

Grade 2 Reading program focuses on encouraging students to become independent, skilful and avid readers. Students read different genres, explore comprehension strategies, critical thinking and decoding skills.

VISUAL ARTS

The curriculum under visual arts is designed to develop creativity and imagination among students through observation and making. Students are introduced a variety of media and techniques to experiment and learn to express their ideas. Textures from nature will be introduced through printing with found materials.

The classroom encourages Collaborative work and making without hesitation.

The emphasis will be on developing creative confidence and refine their Visual arts skills.

Sessions in Art History introduces methods of seeing and appreciating art and experimenting with master artist techniques.

The Core learning includes

Learning to draw and paint using simple tools

Observe colors and textures

Playfully explore materials

Use imagination to present an idea

The students will be introduced to the fundamental Art design skills such as drawing, painting, origami, paper weaving, clay and simple sewing techniques and are encouraged to work with simple materials to achieve an artwork.

Colours will be introduced through observation and experimenting with mixing Primary Colours to achieve a range of colours.

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.

STORY TELLING

Storytelling is an extremely important component of Grade 2 curriculum. It is considered one of the most innate, humane and important form of classroom discourse and communication. Story telling sessions engage and encourage students to employ their predisposition to respond to story and use their narrative understanding as the primary meaning making tool. Students benefit from storytelling as follows:

- Supports and promotes auditory processing skills and listening skills
- Introduces new vocabulary
- Expands visualization skills as children form pictures in their minds.
- Heightens sensory imaging as all senses are elicited: tasting, touching, smelling, hearing, and feeling.

- Brings order through use of thinking skills.
- Improves decision-making skills.
- Enhances memory and stretches attention spans.
- Encourages public speaking.
- Helps them empathise with different characters, events and settings.
- Makes connections and understandings between the past, present, and future.
- Strengthens writing skills as they examine the structure of a story.

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