



UNIT 2: Years 3-4 (Ages: 7-9 years)

This unit is designed with 3rd -4th year primary school students in mind. Students will;

- ✓ Identify peripheral devices, learn about what makes computer systems operate and binary digits
- ✓ Examine current trends in the use of digital technologies and evaluate the impact on students and others in their community
- ✓ Organise, store, retrieve and share information in different ways to explore how data inputs control outputs
- ✓ Collect, examine and sort data, using computer technology to represent findings/outcomes in creative ways using pictures, diagrams, artwork or symbols.
- ✓ Record data using different computer software applications to represent information, solve problems and identify the usefulness of digital visual aids in oral presentations
- ✓ Develop innovative ways to import and embed art, video, photo, music etc in PowerPoint and word processor
- ✓ Develop and/or improve typing skills using fun and educative computer software like Mavis Beacon and other games
- ✓ Use of robotic toys and computer games to navigate a map , learn about coding and core programming concepts
- ✓ Employ algorithmic thinking and debugging skills to define a problem and solve it by following a sequence of steps
- ✓ Utilise problem solving and team work skills in project design and the use of information management tools to create an outcome

Progress outcomes and standards

At the end of unit one, pupils should be able to;

- describe the use of digital systems and their peripheral devices
- develop key computing competencies and value the socially embedded nature of technology
- breakdown a process into steps, know sequence of instructions for a process, identify potential errors and correct them
- apply planning, sketching and digital systems to effectively communicate and present design ideas
- express ideas and represent data in different and safe ways
- collaborate with others to complete a project or an online task, using agreed protocols and **evaluate the safe use of** information to meet people's needs

