



In partnership with



SHELL STREAM AND TECH CLUBS

LEARNING OUTCOMES

By participating in the club for the term (January- March 2023), students will cover the following topics and objectives in the specified subject areas:

Art and Technology

Topic: Coding with Minecraft Education Edition

Students should be able to:

- outline the steps in problem-solving;
- distinguish between variables and constants;
- explain the concept of algorithms;
- develop algorithms to solve simple problems;
- explain commonly used terms and concepts in programming; Testing, debugging, syntax errors, logic errors, run-time errors, dry run, test data.
- declare variables and constants;
- use control structures; Conditional branching: if-then, if-then-else, Loops: while, repeat, for

Mathematics

Topics: Trigonometry (Polygons and Pythagoras Theorem)

Students should be able to:

- Identify what is a polygon.
- Identify the properties of a polygon.
- Calculate the sum of the interior and exterior angles.
- Explain Pythagoras theorem.
- Apply Pythagoras Theorem to calculate length of unknown side of triangle.

Integrated Science

Topics: Acidic and Alkaline Substances, Chemical Bonding, Light Transmission

Students should be able to:

- Differentiate between Acidic and Alkaline substances
- Demonstrate how atoms form stable configurations
- Describe how atoms combine to form molecules
- Describe chemical reactions
- Investigate the transmission of light in different mediums.