CODING & ROBOTICS PRIMARY SCHOOL OLYMPIADS:

GUIDE

GRADES 4 - 7

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GRADE 4

Coding and Robotics

A. Paper structure for the olympiad

Multiple Choice questions, True or false and computational.

B. How does it align with the curriculum?

CAPS topics include:

- Internet and E-Communications
- Application Skills
- Algorithms and Coding
- Robotics

C. How it goes beyond?

The olympiad includes some general knowledge questions based on the practical implementation of programming and robotics in everyday life.

D. Sample questions

There are three types of questions, they are namely multiple choice, true or false questions and computational type questions.

1. Multiple Choice Questions

1. Which of the following cannot be classified as an output device? (1)

    A. Keyboards.
    B. Printers.
    C. Mice, trackpads, and other pointing devices.
    D. Scanners.

2. The central processing unit is used for. (1)

    A. Performing arithmetic and logical operations.
    B. Running programs.
    C. Signal processing.
    D. Graphics rendering.

3. Which of the following is an example of a high-level programming language? (1)

    A. Assembly language
    B. Machine language
    C. C++
    D. Binary code

2. True or false questions

1. Robotics refers to the design, construction, operation, and use of robots. Robots are machines that are programmed to perform a variety of tasks automatically or with minimal human intervention. (1)

    A. True

    B. False

2. Microcontrollers are small, self-contained computer systems that are designed to control specific functions or devices. (1)

    A. True

    B. False

3. Communication platforms do not include applications such as WhatsApp and Facebook. (1)

   A. True

   B. False

3. Computational questions

forever	move (10) steps
change y by (10)	wait (0.25)
seconds move (-10) steps	change y by (-10)
wait (0.25) seconds	

1. What blocks will you use in scratch to move a sprite up and down infinitely. Write them down in order. (4)

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