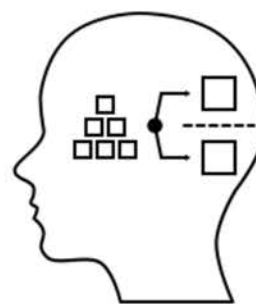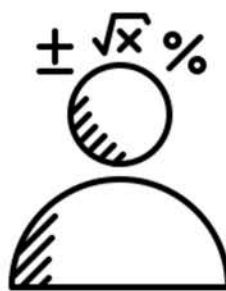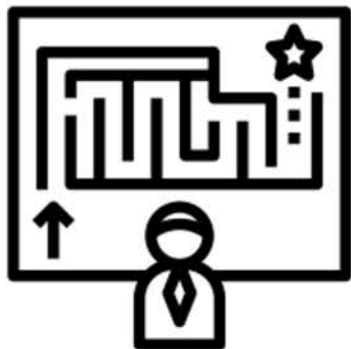# Mathematics

CRITERION A

Knowing & Understanding

i. Select appropriate mathematics when solving problems in both familiar and unfamiliar situations

ii. Apply the selected mathematics when solving problems

iii. Solve problems correctly in a variety of contexts
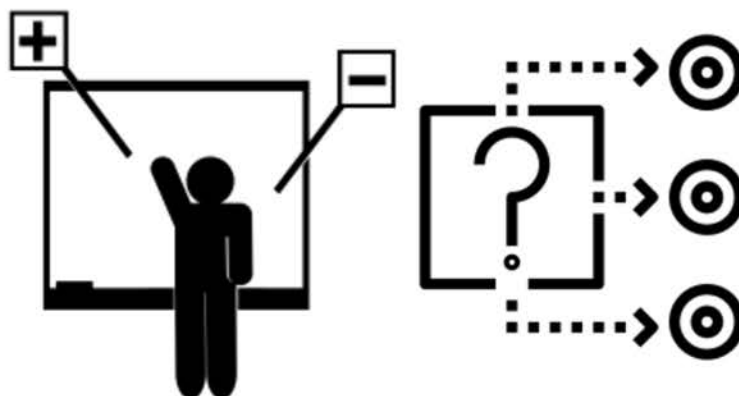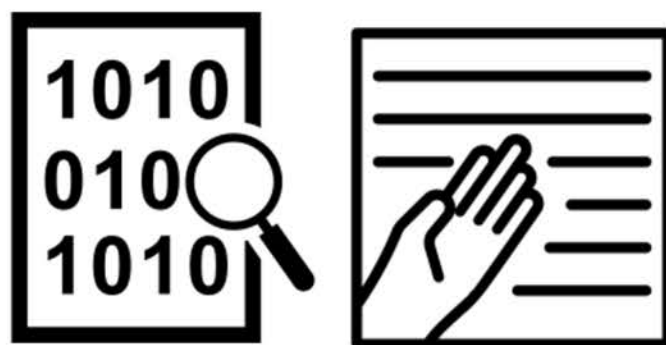
Mathematics

CRITERION B

Investigating Patterns

i. Select & apply mathematical problem solving techniques to discover complex patterns

ii. Describe patterns as general rules consistent with findings

iii. Prove, or verify & justify general rules

Mathematics

CRITERION C

Communicating

i. Use appropriate mathematical language

Symbolic

$$y = 2x$$

Numeric

x	$y = 2x+4$
−3	−2
−2	0
−1	2
0	4

Graphic
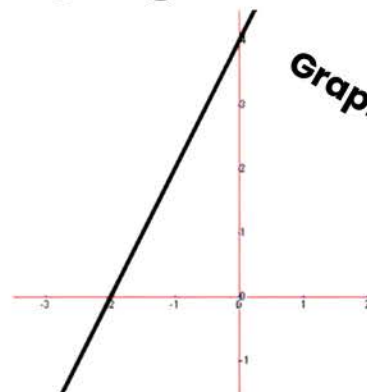
ii. Use appropriate forms of mathematical representation
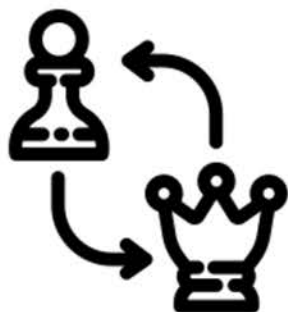
iii. Move between different forms of mathematical representation

iv. Communicate complete, coherent, & concicse mathematical lines of reasoning
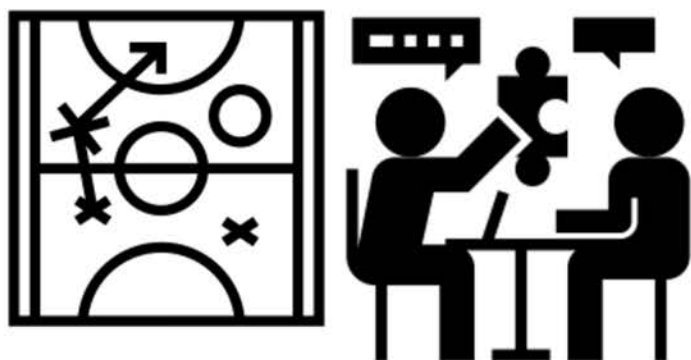
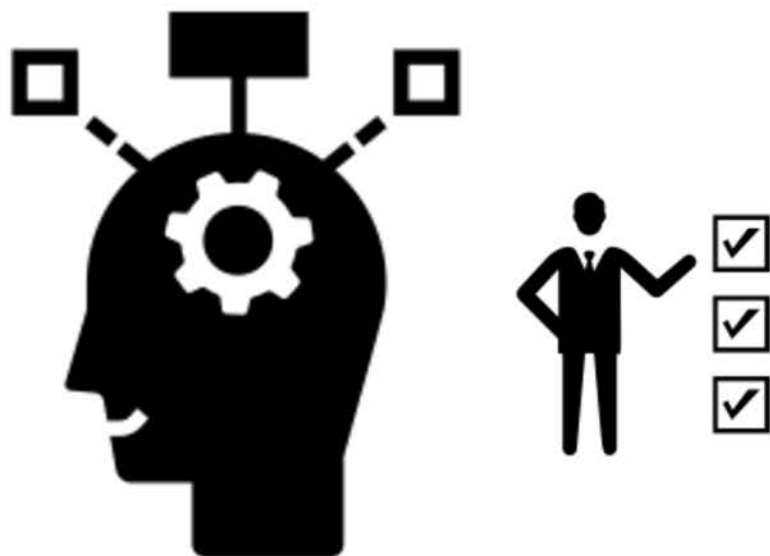**v. Organize information using a logical structure**

Mathematics

CRITERION D

Applying Mathematics in real-Life Contexts

i. Identify relevant elements of authentic real-life situations

ii. select appropriate mathematical strategies when solving authentic real-life situations
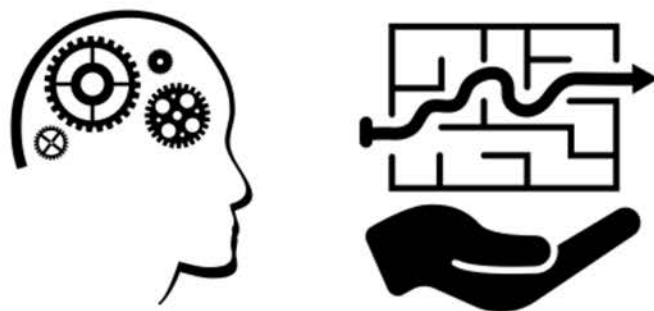
iii. Apply the selected mathematical strategies successfully to reach a solution

iv. Justify the degree of accuracy of a solution

v. Justify whether a solution makes sense in the context of the authentic real-life situation