Evaluating the Suitability of a Proposed Mathematical Investigation

A guide for teachers to using this resource

This is a resource that students may use during Classroom-Based Assessment 1 to evaluate the suitability of their proposed Mathematical Investigation.

Suggestions for using this resource

- Prior to CBA 1 students should be familiar with the problem-solving cycle and should have encountered rich task-based learning experiences.

There are four sections in this resource which broadly align to the four areas of activity from CBA 1 and may help students evaluate the suitability of a proposed Mathematical Investigation:

  - Defining the Problem Statement
  - Identifying a Strategy and/or Translating the Problem to Mathematics
  - Engaging with the Mathematics of the Problem
  - Interpreting and Reporting

- **The prompt questions may be used by students to evaluate the suitability of a proposed Mathematical Investigation.**

Further resources are available through www.jct.ie/maths to support the development of skills necessary for the Mathematical Investigation (CBA 1).

Evaluating the Suitability of a Proposed Mathematical Investigation

<table>
<tr><th colspan="3">DEFINING THE PROBLEM STATEMENT</th></tr>
<tr><td colspan="2">Write down an area or topic of interest from your studies or the world around you for investigation.</td><td>Pose a problem statement for investigation based on your area or topic of interest.</td></tr>
<tr><th colspan="3">IDENTIFYING A STRATEGY AND/OR TRANSLATING THE PROBLEM TO MATHEMATICS</th></tr>
<tr><td>List the variable(s) or data that you can identify related to your problem statement.</td><td>Provide a brief description of how you plan to investigate your problem.</td><td>Write down the resources available to investigate your problem.</td></tr>
<tr><th colspan="3">ENGAGING WITH THE MATHEMATICS OF THE PROBLEM</th></tr>
<tr><td colspan="2">Note the areas of Mathematics that might be used during your investigation.</td><td>List the mathematical representation(s) that might be used during your investigation.</td></tr>
<tr><th colspan="3">INTERPRETING & REPORTING</th></tr>
<tr><td colspan="2">Write down how you intend to communicate your mathematical ideas and findings.</td><td>Write down how you intend to record your findings, observations and reflections during the investigation.</td></tr>
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