



Investigation I

Pulse rates

Learner's Book page 45

According to the Senior Phase Mathematics CAPS, investigations should promote critical and creative thinking. They can be used to discover rules or concepts and may involve inductive reasoning, identifying or testing patterns or relationships, drawing conclusions, and establishing general trends.

To avoid having to assess work which is copied without understanding, it is recommended that whilst initial investigation could be done at home, the final write-up should be done in class, under supervision, without access to any notes. Investigations are assessed with rubrics, which can be specific to the task, or generic, listing the number of marks awarded for each skill.

The following rubric may be used, or one that you find appropriate to use for this investigation.

	0–1	2–3	4–5	6–7
Organising and recording ideas and discoveries using, for example diagrams and tables	No evidence of strategy or procedure to record the data	Partial completion of the data	Recorded all data	Recorded all data clearly and accurately
Communicating ideas with appropriate explanations	No description of the method required for the task	Partial completion of the descriptions of the method	Descriptions of the method are effective	Descriptions of the method are effective and appropriate
Calculations showing clear understanding of mathematical concepts and procedures	No evidence of understanding the concepts required for the task	Minimal evidence of understanding of mathematical concepts or big ideas	Evidence of understanding of the big ideas	Provided evidence of in-depth understanding of concepts and procedures
Generalising and drawing conclusions	No conclusion stated or no data recorded	Conclusions partly supported by the data	Appropriately used data to support conclusions	Interpretation of data supports conclusions and raised new questions