Part 1: a Literature Review of an aspect of Subject Pedagogy in Computer Science – Formative Assessment

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# Introduction

This literature review will be analysing and discussing how formative assessment has and can be used in the computing classroom to provide effective assessment for learning. This study will not be covering assessment of learning, or summative assessment, such as exams and coursework which is a separate topic.

Identifying useful forms of formative assessment is key in ensuring that the methods of teaching in the classroom are effective. Having effective methods for discovering if the students have fully comprehended new material allows teachers to better tailor their teaching methods to ensure maximum knowledge retention in their students. For this to happen, the methods used in formative assessment tasks need to provide the teacher with enough information to know which areas of their teaching strategy to modify. Numerous methods of formative assessment exist to benefit this purpose. Many of them are tried and tested, traditional methods that can be implemented regardless of the specific classroom they are used in. There are many, more modern methods of formative assessment that can benefit explicitly from being used in a computing classroom as opposed to more analogue environments. This review will assess how effective these modern methods are at providing the same, or perhaps even greater detail that can be used to tailor teaching strategies in specifically the computing classroom.

Due to the more modern nature of some of the formative assessment methods being analysed, the sources used for this review will be mostly within the last 5 years of research. This is to ensure that there is as much evidence of the application of the methods as possible to provide an accurate and scientific analysis of the differences between these methods and the more traditional ones.

Hopefully, this literature review can give some insight on the benefits of using both traditional, and more modern methods of formative assessment within the computing classroom.

# Literature Review

1500 Words

Types of Formative Assessment:

* Self and peer assessment
* Automated tools
* Parson puzzles
* Rubrics
* Concept maps
* Response systems and MCQs

# Conclusion

200 Words

# Bibliography

**There are no sources in the current document.**