

Introduction

This set of resources has been developed to help Mathematics teachers, primary and secondary, incorporate and integrate topics in codes and ciphers into their mainstream teaching. The resources can be used to

- (i) provide motivation in the study of mathematics,
- (ii) provide meaningful, interesting and relevant contexts,
- (iii) challenge high ability pupils,
- (iv) provide investigations and coursework for pupils at various levels from Key Stage 2 to GCSE and even A-level.

To help teachers use these ideas we have developed each unit of resources to consist of

- *Teacher Resource Material*
- *Pupil Text*
- *Masters for Overhead Slides*
- *Detailed Lesson Plans*

The *Lesson Plans* have been designed to incorporate highly interactive strategies, often using the material from the *Pupil Text* section but not necessarily using the Pupil Text directly. In fact, the Pupil Text is produced primarily as self-study material which might help schools address the issue of how to extend and challenge gifted and talented pupils. Our main aim throughout is to enhance everyday teaching of mathematics through interactive teaching based on relevant and motivating contexts.

In the electronic version, we have also provided some new programs specifically designed to fit in with the lesson plans and we hope to expand these programs in the future.

We hope that teachers will find these resources motivating and challenging for all their pupils.

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