VBk Practical Mathematics and Microsoft Excel Course

Introduction

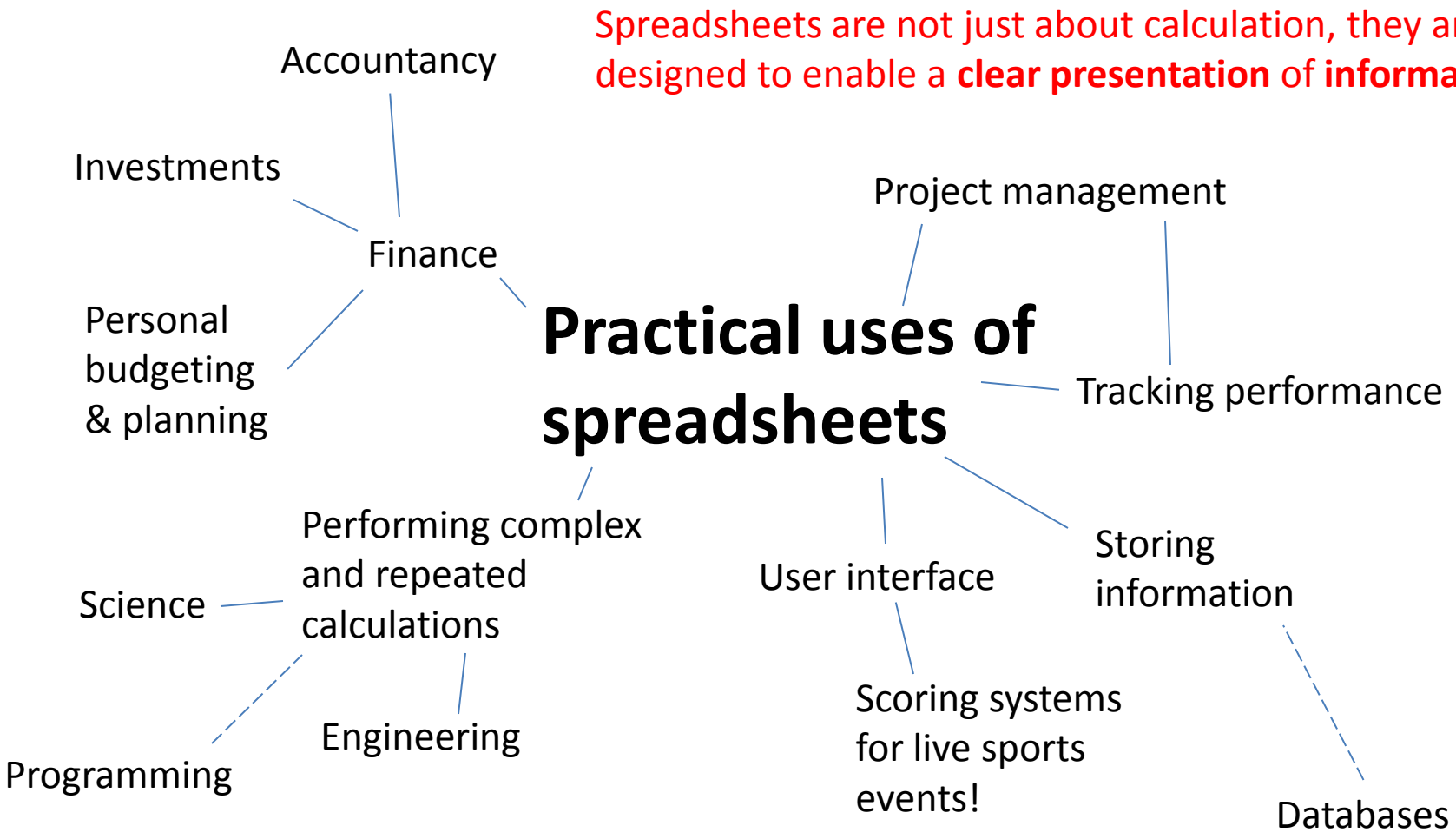
AF, CNB, MZ, APM

Mathmā

WINCHESTER COLLEGE

Scope

- Two weeks of lessons in F1, Flint Court
- Introduction to the practical usage of **spreadsheets** (using Microsoft Excel)



Basically at some point in your professional life you will need to use Excel.

So let's get good at it now.

Projects

Open ended tasks

We'll provide 'how to sheets' but **you** have to figure out what your spreadsheet needs to do, then use the resources to learn the required skills. We'll also help you if you are nice to us.

Project	Skills
Skills tracker	Cell formatting, presentation, how to capture and keep track of information
Financial review & budget	Analysis of financial data. Use of **filters**, **pivot tables** and **menus**. **Auto-sums**, **pie-charts**, multiple worksheets ....
Football statistics	Automatic statistical calculations. Pose and test a hypothesis.
Loans and savings	Use of **cell formulae**, **replication.. Automated iterative computations.**

Examples

Excel can be used in many situations. Several case studies will be available for you to study. Perhaps you could devise your own project based on them?

Example	Key features
Electricity & Gas meter readings	Record keeping. Automatic graph plotting. Line of best fit to determine usage rate. Use of time and date information.
Rendall Pot scoring spreadsheet	Presentation of data. Design for high pressure, live data input. Automatic calculation features. Sorting to work out positions. Use of VLOOKUP to determine scores based on the event and position.

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Example	Key features
Multiplication table	Cell formatting. Formulae. Use of $ to reference specific cells. Replication otherwise.
Table of powers (squares, cubes etc)	
Exoplanets & Kepler's Third Law	Data analysis, graph plotting, error bars
Resonance in and RCL circuit	Mathematical modelling, cell referencing, graph plotting