

2015 specification
for the 2020 exam



PAPER 1 EXAM RESOURCE PACK 2020

Food Magnate Simulation

for A Level AQA Computer Science

PYTHON³ EDITION

DC9/
9840

POD
9840

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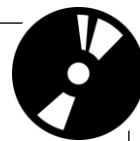
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Teacher's Introduction

This resource pack is designed to help you support your students taking the **A Level Computer Science Paper 1** exam. It is based on the '**Food Magnate Simulation**' preliminary material (Python³) – for examination June 2020.

On the CD, you will find the following:








-  **FoodMagnateSim** this folder contains all of the content (PDF/DOCX) accessible via a HTML interface
-  **Passwords.txt** for teacher use – this file contains all of the passwords for the protected PDFs (also listed below)

* PRINTED COPIES OF ALL THE MATERIALS IN THIS DIGITAL RESOURCE PACK ARE INCLUDED FOR REFERENCE.

Installation: Copy the entire **FoodMagnateSim** folder onto a network location that is accessible for students, and provide them with a shortcut to the **index.html** file. All content can be accessed from this page.

Passwords: All of the PDFs accessible via the *Solutions* web page are password-protected, so that students can only access them with your permission. Each password is a four-digit code, as follows:

 p01-Commentary.pdf	1158
 p06a-ClassDiagramTasksMS.pdf	3091
 p06b-ClassDiagramFull.pdf	5630
 p07-TheoryQuestionsMS.pdf	7642
 p08-ProgrammingTasksMS.pdf	2966

Should you wish to give students access to ALL protected-PDFs, the master password for all files is:
zz2ghc4

The resource pack consists of the following:

- ① **Pre-release Commentary** including a general explanation of how the program works (text and video), plus a more detailed, technical overview* describing each subroutine, class and attribute in turn.

***Note:** although this section is intended to give extra support to teachers and students, it should in no way be seen as a substitute to a student exploring the code for themselves. For this reason, this content has been placed on the 'Answers & Solutions' HTML page as a password-protected file, to allow you to control if/when students access it.

- ② **Class Diagram Tasks**

Three partially complete UML class diagram tasks for students to complete while getting to grips with the skeleton program. Students must add any missing attributes, subroutines, access modifiers, parameters and return types. Completed versions are provided via the *Solutions* web page as a password-protected PDF.

- ③ **Written Questions**

Theory questions testing students' understanding of the skeleton program, like Section C in the exam. These questions require access to the program, but no modifications need to be made to the program. Write-on (with answer lines) and non-write-on version are available format. Suggested answers are provided via the *Solutions* web page as a password-protected PDF.

- ④ **Programming Tasks**

Fifteen modification exercises put students' programming skills to the test, like Section D in the exam. Example solutions with suggested mark schemes are provided via the *Solutions* web page as a password-protected PDF. Note that these are example solutions and you must use your discretion to award marks accordingly where there are valid alternative solutions.

An **Electronic Answer Document (EAD)** is provided should you wish students to use it for ③ and/or ④ above.

This resource is intended to supplement your teaching only. **Please read full disclaimer (p. iii) before using it.**