Hi Instructors!

Thank you for coming on board to deliver this CF:G course. While a lot of love and care has gone into designing this material, there may still be some gaps - please feel free to let us know your feedback as you deliver each session so we can keep improving. Our goal is to present content to learners in a concise, scaffolded, relevant and engaging manner.

**Course Title:**

Introduction to Python Programming

**Purpose:**

A beginner friendly course to help students learn the fundamentals of programming through problem-solving in Python.

**Overall learning Outcomes:**

Learners will be able to:

* successfully demonstrate their understanding of python programming through practical exercises
* build and deploy a project

**Session flow:**

Session 1: Python basics - Data types and Variables

Session 2: Problem solving with Turtle

Session 3: Decision making in your program

Session 4: Lists and Dictionaries

Session 5: Third party libraries and APIs

Session 6: Building & deploying your app (Part 1)

Session 7: Building & deploying your app (Part 2)

Session 8: Project Presentations

**Project options:**

[1] Top Trumps

[2] Search

[3] Spreadsheet Analysis

**Duration:**

8 sessions (2 hrs each) = 16 hrs of content

**How you can use the materials effectively:**

1. Review the project brief
2. Install Jupyter notebook using the guide (Interactive slides > Installation guide)
3. Use Jupyter Notebook and Session plans simultaneously

**Materials:**

1. [Session Plans](https://drive.google.com/drive/folders/1Vh6fBBS418gSURCLEV9ZymTvu7bN3CcH?usp=sharing)
2. Jupyter Notebook
   1. [How to install and use Jupyter Notebook](https://drive.google.com/open?id=1ds9aeSwBzVwUvxTEk5gxurIbxcGzS-e9)
   2. Downloads necessary elements for each session ([Interactive slides](https://drive.google.com/drive/folders/1_xRyjX3iXWhJry_24Z2f206Sizef_MqX?usp=sharing),[gifs](https://drive.google.com/drive/folders/1uRseZAzTbA8z1trOZGWEgUVfvbhCiUU_?usp=sharing) and [images](https://drive.google.com/drive/folders/1iUvpGB9_gcrnlBfzktJ3kl-DFXsK3mIl?usp=sharing))
   3. [Slides](https://drive.google.com/drive/folders/1mZckHJPZkyNnFr2sBvmlWVJWrMb78Nq5?usp=sharing)

Pdf slides have been provided for you as a backup in case the Wifi fails/Jupyter notebook does not work. They are not intended as teaching materials, so please do not display them unless you have to.

1. [Student Guides](https://drive.google.com/open?id=1pPC3wh3NwWv7BO_2gu3jY3ikZ8MBneoM) (Solutions to exercises are included here)

Good luck on the course and feel free to reach out to us at anytime via [programmes@codefirstgirls.org.uk](mailto:programmes@codefirstgirls.org.uk) or [professionals@codefirstgirls.org.uk](http://codefirstgirls.org.uk/professionals@codefirstgirls.org.uk)