Hi Instructors!

Thank you for coming on board to deliver this CFG 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 (Slides > Installation guide)
3. Use Jupyter Notebook and Session plans simultaneously

**Materials:**

1. Session Plans
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,gifs and images)
   3. Slides

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 (Solutions to exercises are included here)

Good luck on the course and feel free to reach out to us at any time via [programmes@codefirstgirls.org.uk](mailto:programmes@codefirstgirls.org.uk)