A Level Computer Science Induction - Summer Assignment

On page 42 of the specification, there is a list of 'acceptable programming languages' from OCR.

Programming languages which OCR will accept:

- Python
- C family of languages (for example C# C+ etc.)
- Java
- Visual Basic
- PHP
- Delphi

Choose 3 languages from the list to research (one must be C#) and **create a factsheet or PowerPoint** giving details of what you found out.

Task 1
Research the following:
- Name
- Who invented the language and when?
- What type of language is it?
- What is it used for?
- Outline some features that make it particular suited to that purpose (built-in functions and libraries).
- Show code snippets from each comparing how a programmer would do the following:
  - Declare variables of a particular data type
  - Assign a value to a variable
  - Perform looping statements and selection statements
  - What data structures are available in each?

You should be able to find out what you need by searching the term along with the name of the language e.g. *variables Python* or *libraries C#*.

A useful website is W3Schools.com (https://www.w3schools.com/default.asp). Most if not all of the languages listed are covered on the site which includes tutorials and exercises for each. Explore and try your hand at one or two of them.

There is no prescribed template for this work, but you must use either a slide presentation or a document to submit your work. This work will be due in when we return in September.

Task 2
For A level you will be learning and programming in C#. As time allows, work through as many of the w3schools C# tutorials as you are able. https://www.w3schools.com/cs/index.php