

Coding Short Course Classroom Based Assessment - Information

After Christmas, you will complete your CBA in coding. You must work in groups of 2 or 3.

Over this period it is up to you and your group to showcase what you have learned since 1 st year.

Your task for the project is to find a problem in the real world that you feel you could help solve using your skills in coding.

What language can you use?

You can use any language that you have learned since 1 st year. We have learned how to code in...

- Scratch – we've made animations and games
- Micobit-block code – we've made a stepcounter ('fitbit') and a dice
- Python turtle – we've made Xmas cards
- Scratch to interact with the GPIO pins on the raspberry pi. This allowed us to control LEDS
- and other electronic components. We also made songs!
- Python – recently we have been learning the syntax used in the Python text based programming language.

Your project must be original. Yes you can use any idea from before but you must build on it, add something new! It is also important to remember that all your code must be commented on.

Ideas:

Your Google Drive is a 'portfolio' of all the projects you have been working on since 1 st year. Also your REPL account has all your python programmes. Here you will find ideas that you could build on/add to. Could you bring some of the ideas together?

Think back to the physical computing projects you did in scratch, maybe look at these again but using Python.

You made shapes in Scratch and using python turtle; could these made into a game or add sound? But then what problem would this solve in the real world

You made a fitbit with a microbit – could something be done with this?

More ideas: <https://codeclubprojects.org/en-GB/>

Keep the idea SIMPLE!! And remember you must comment on all your code. You must be able to explain what each line of code does. Most importantly you must be able to respond to feedback. You keep a record of everything you do and present the project to the class talking about what you did in the project.

Everyone must hand up an individual report.

The five aspects to the project are. You will need to write a summary under each of these headings.

- Initial research and planning
- Design, implementation and testing
- Documentation of work and code
- Presentation of final project
- Assessment of feedback

Features of Quality: Coding - Putting the pieces together

Exceptional

The student shows they were fully involved in the project as a highly committed member of the team. The documentation of both the student's learning and their code is comprehensive.

The student shows they have consolidated previous learning in their project.

The benefits of the project are presented in a very convincing way.

The student has accurately recorded feedback and convincingly responded to it.

Above expectations

The student shows they were involved in the project as a committed member of the team. The documentation of both the student's learning and their code is very good.

The student shows they have built on most of their previous learning in the project.

The benefits of the project are presented in a convincing way.

The student has correctly recorded feedback and competently responded to it.

In line with expectations

The student shows they were involved in the project as an enthusiastic member of the team. The documentation of both the student's learning and their code is good.

The student shows they have built on some of their previous learning in the project.

The benefits of the project are presented in an adequate way.

The student has recorded feedback and adequately responded to it.

Yet to meet expectations

The student shows some involvement in the project as a member of the team. The documentation of both the student's learning and their code is limited. The student shows little of their previous learning in the project.

The benefits of the project are presented in a less than adequate way.

The student has recorded some feedback but their response to it is limited.