

## A Level summer transition project

# **Computer Science**

# You should complete the Emerging Technologies task (Section 1) and at least ONE of the tasks in Section 2

## Section 1: Emerging Technologies

Research into the latest ICT based technologies this could be into 3D technology, Future of video gaming, Smart technologies, or Telepresence technologies. Present your findings in a suitable way

- Explain what the technology is or does.
- How does the impact on our lives?
- What are the benefits?
- What are the possible drawbacks to the technology? E.g. how does it affect society, costs etc.?



## Section 2: Projects

Select 1 project to complete. You should evidence your work in a word document or Google Doc, including screenshots where appropriate.

### **Option A - Investigation task**

#### Link:

#### https://drive.google.com/file/d/11PWehi0UaWmIxdn6tRAukntOAhOhKy9y/view?usp=sharing

In the course of the investigation, there will be an opportunity to look in depth at an aspect of computing. The tasks will require a significant element of practical activity which must be evidenced in a report. The topics will enable practical investigation and research to be carried out in a variety of ways including:

- practical investigations with hardware
- practical investigations with software
- practical investigations with online resources

Some research will be necessary to support the practical investigation. This may include:

- web-based enquiry
- contact with IT professionals
- research using computer industry publications

### **Option B – Programming Task**

#### Link: https://drive.google.com/file/d/1cjV283uGtHBdrLKAkgntWVGFIE5-ZERJ/view?usp=sharing

The tasks are set so as to enable students to develop and show their programming knowledge, specifically with python. The tasks provide opportunities to demonstrate a range of programming skills.

You may find the following websites helpful for python

https://www.learnpython.org/

https://snakify.org

https://www.w3schools.com/python/

Who to contact if you should require further assistance

Mr S Renshaw: <a href="mailto:srenshaw@glossopdale.school">srenshaw@glossopdale.school</a>

Mr O James: ojames@glossopdale.school