



Learning Journey: Year 9 Computing

Final Projected Grade last year:

I am happy/unhappy with my final projected grade from last year because ...

To continue to improve my projected grade I need to focus on the habit of _____ by ...

Term 1a: Cybersecurity

- What is the difference between data and information and how are these used?
- What is human error and how can this pose a security risk to data?
- How might humans and bots purposefully attack data and computer systems?
- What measures can be used to reduce the risk of a successful cyber attack?

Term 1b: Data Science

- What IS data science?
- How can software tools be used to visualise data and look for trends?
- How can data be used to help us make decisions?
- How can we ensure that data is accurate?

Term 1: How far have I demonstrated the Habits?

Hardworking: ____/5

Inquisitive: ____/5

Resilient: ____/5

Respectful: ____/5

Responsible: ____/5

Aspirational: ____/5

Next term I will focus on _____ by ...

TA1 Projected Grade:

Term 2a: Python Programming with Sequences of Data

- How can we write a program in Python?
- What is selection and how might we use it?
- What is a list/array and how do we use them?
- How can iteration be used to work with lists/arrays?

Term 2b: Physical Computing

- What is a micro:bit and how can I program one?
- How can micro:bits be programmed so that they can communicate with each other?
- How can I conduct a project to develop a physical computing system?

Term 2: How far have I demonstrated the Habits?

Hardworking: ____/5

Inquisitive: ____/5

Resilient: ____/5

Respectful: ____/5

Responsible: ____/5

Aspirational: ____/5

Next term I will focus on _____ by ...

TA2 Projected Grade:

Term 3a: Data Representation

- How are files such as images or sound stored in binary (1s and 0s)?
- What are pixels, resolution and colour depth?
- What difference does quality make to file size?
- What are samples, sample frequency and sample size in audio files?
- How can files be compressed to make them smaller?

Term 3b: Multimedia Project

- What is a multimedia product?
- What software is used to create a multimedia product?
- How can I conduct my own multimedia project?

Term 3: How far have I demonstrated the Habits?

Hardworking: ____/5

Inquisitive: ____/5

Resilient: ____/5

Respectful: ____/5

Responsible: ____/5

Aspirational: ____/5

Next year I will focus on _____ by ...

Final Projected Grade:

Careers:

The career that interests me is ...

METG

Computing will help me achieve this because ...