Unit Overview: Mobile App Development								
Half- Term:	AUT 1	AUT 2	SPR 1	SPR 2	SUM 1	SUM 2	**No of Lessons:**	**5**

Key Focus for Unit:
What is the key knowledge being delivered?
What is the intent of this unit?

The students will be focusing on applying computational thinking in a coding context. They will be doing this in a block-based language, to produce a mobile app.
This unit will focus on getting students to practice the areas of computational thinking:
- Algorithms
- Decomposition
- Abstraction
- Pattern recognition

Key Knowledge and Big Ideas:
*What **Powerful Knowledge** and **Big Ideas** are explored in this Unit?*
*How have these progressed from previous learning? What **gaps in knowledge** have you identified from **baselining** and how are the being closed?*

Powerful Knowledge
Using algorithms to solve problems is a step by step process

Big idea
Breaking down problems (decomposition) allow problems to be solved.

Gaps in learning
Students demonstrated their following in their baseline test:
1. Students are not confident sequencing instructions
2. Students are not aware of some coding techniques (iterations)

Unit Assessment:
How will this unit be assessed?
What is the frequency of assessments – baselines etc?

Assessment: Half term quiz to assess students understanding
Frequency of assessment:
- Low stakes quizzes at the start of lessons
- Stretch tasks each lesson.
- Homework quizzes to support 1 lesson a week
- Practice of types of questions in class

Key Skills Explored	**Vocabulary Selected for DVI**	**Links to Previous Unit**
Problem Solving technique: • Define a problem • Differentiate fact from opinion • Explore alternative solutions • Choose one option to test • Evaluate chosen solution	• Decomposition • Algorithms • Abstraction • Block-based programming	Following the foundational understanding of hardware, CPU, binary and storage device, this unit explores how computers are used to solve problems through coding our lives.
• Links to Careers/Employability	**How does this unit prepare students for the next unit?**	

Software developer website development Mobile apps development, Social media specialist	Developing basic coding techniques is essential to problem solving. Building on the graphical coding from last years, students use of textural coding to help student develop industry standard coding language, Python. Students need to become familiar with problem solving scenarios in the next unit.