IRVINE ROYAL ACADEMY
Ambition • Respect • Responsibility

Overview of work Jan to April 2021   **Year Group S1 ICT**

January

TOPIC: Cyber Security
- Cyber security multiple choice assessment

TOPIC: Programming with Scratch
Introduction to Scratch programming - Name animation
- Create account on the Scratch website
- Adding sprites, adding scripts to sprites, change background
- Animation documented

Simple catch game
- Control sprite using keyboard input
- Create a variable to store a score
- Use loops and decisions to decide if a life has been lost or an item has been caught
- Game documented

February

TOPIC: Programming with Scratch

Racing car game
- Create your own car sprite and background
- Add scripts to control the car
- Add script to detect if the car has crashed off track
- Add items to collect on the track
- Game won if all items collected; game lost if 3 crashes detected
- Game documented

March

TOPIC: Programming with Scratch

Chase game or maze game
- Main character, enemy, and item to collect sprites added
- Lives, collected items, time variables added
- Scripts added to the sprites
- Game documented

Using Scratch to draw shapes and patterns
- Square, triangle, hexagon, octagon, circle
- Use loops to make patterns
- Shapes assessment

Making your own game
Scratch assessment

April

TOPIC: Spreadsheets
- Spreadsheets: Add, subtract, multiply, divide calculations
- Spreadsheets multiple choice assessment 1
- Using functions in spreadsheets
- Making charts using data from a spreadsheet
- Spreadsheet multiple choice assessment 2