# West Sussex Alternative Provision College – Key Stage 3 Computing Framework – OCR R354 Entry Level Computing

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|---|---|
| Computer Hardware<br>• Components of a computer<br>  ○ Motherboard<br>  ○ Hard drive<br>  ○ Memory<br>  ○ PSU<br>  ○ CPU<br>  ○ Expansion slots<br>• Input and Output devices<br>• Memory<br>  ○ RAM<br>  ○ ROM<br>• Storage<br>  ○ Types<br>  ○ sizes | Computer Software<br>• Operating Systems / Application Software / Utility Software<br>• Data representation<br>  ○ Binary<br>  ○ Logic Gates | Moral, Legal, Cultural & Environment<br>• Digital Divide<br>• Ads, cookies, big-brother, hacking<br>• Computer Misuse act / Data Protection act / Copyrights act / Investigatory powers<br>Programming<br>• Design Cycle<br>  ○ Plan<br>  ○ Do<br>  ○ Check<br>  ○ Review<br>• Sequencing, flowcharts and pseudocode<br>Online safety (incorporating Safer Internet Day) | Programming<br>• Scratch blocks palette<br>• Sprites and backgrounds<br>• Example scratch projects<br>• Programming task<br>  ○ Planning<br>  ○ Developing a solution<br>  ○ Testing a solution<br>  ○ Evaluating the success of the solution | Extended learning projects (ICT)<br>• Digital Graphics<br>• 3D printing<br>• Web design<br>• Animation<br>• Spreadsheets<br>• Video<br>• Audio | Extended learning projects (ICT)<br>• Digital Graphics<br>• 3D printing<br>• Web design<br>• Animation<br>• Spreadsheets<br>• Video<br>• Audio |

## OCR Entry Level Computing R354

### Qualification breakdown

**Computer Systems**

CS1 Computer hardware | Computer software --- CS2 Computer memory and storage | Moral, legal, cultural and environmental concerns
40 Marks | 2x30 minute exam | Total 1 hour Internally-assessed/ externally-moderated | 40% of total Entry Level Certificate

**Computational thinking, algorithms and programming**

CTAP1 Computational logic | Algorithms --- CTAP2 Programming techniques | Data representation
40 Marks | 2x30 minute exam | Total 1 hour Internally-assessed/ externally-moderated |40% of total Entry Level Certificate

**Programming project**

Planning a solution | Developing a solution | Testing a solution | Evaluating the success of the solution
Programming Project 20 Marks Internally-assessed/ externally-moderated 20% of total Entry Level Certificate