



# Castlebrook High School

## IT & CS Department

<b>Course:</b> Year 7 IT & CS		
<b>Academic Year:</b> 2018 / 2019		
<b>Curriculum overview:</b> Learners will study 6 units of work aimed at developing their IT and Computer Science skills, knowledge and understanding. Learners will be assessed on each unit and reflect on their progress after each assessment.		
<b>Time</b>	<b>Topic</b>	<b>Number of Lessons</b>
HT 1  7 weeks	<b>Unit 1 – Introduction to IT</b> Learners develop an understanding of using IT. In this unit they will learn about logging onto the network and password security. They learn how to manage storage by creating suitable files and folders. They learn about different types of software and what they are used for.	5
	<b>E Safety Session 1</b> Learners look at the importance of e safety in today's society. They look into the potential dangers of being online and how these dangers can be prevented. In this session the focus is on cyberbullying.	1
HT 2  8 weeks	<b>Unit 2 – Spreadsheets</b> Learners develop their spreadsheet skills before going on to set up a class model to record their heights. They will use a range of formulae to calculate the total, average, maximum, minimum heights of their class. They will format their spreadsheet and present their results in a graph.	5
	<b>Unit 3 – Algorithms</b> Learners look at what an algorithm is before going on to use flowcharts to write algorithms to control everyday systems such as a zebra crossing, traffic lights and a lighthouse.	3
<b>Christmas Holidays</b>		
HT 3  6 weeks	<b>Unit 3 – Algorithms</b> Learners are introduced to programming. They look at writing basic code and debugging code to resolve problems and ensure programs work.	5
	<b>E Safety Session 2</b> Learners look at the importance of e safety in today's society. They look into the potential dangers of being online and how these dangers can be prevented. In this session the focus is on online grooming.	1



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HT 4 5 weeks	<b>Unit 4 - Animation</b> Learners look at different animation techniques and evaluate their success. They use a range of software to produce animations to tell a story.	5
Easter Holidays		
HT 5 5 weeks	<b>Unit 5 – Graphics and Web development</b> Learners look at how to use different pieces of software to create graphics for a purpose. They will use the graphics in a mini website they will create.	5
HT 6 7 weeks	<b>E Safety Session 3</b> Learners look at the importance of e safety in today's society. They look into the potential dangers of being online and how these dangers can be prevented. In this session the focus is the dangers of sharing images online.	1
	<b>Unit 6 – Project</b> This unit aims to combine all the skills and knowledge from IT this year. Learners will receive a project brief to work to and will need to use what they have learnt to meet the requirements of the brief.	6