



		Computing	
Topic	<p><u>Unit 1 Cracking the code</u></p> <p>In this unit pupils will be looking into Encryption to give them a board overview of what it is and how it is used.</p> <ul style="list-style-type: none"> • Identify what Encryption is and why it is important • Understand the history of encryption and can explain it • Explain the advantages and disadvantages of encryption • Identify what decryption is • Explain the methods for decryption 	<p><u>Unit 3 Simple Databases</u></p> <p>In this unit people will develop there understanding of what databases are and how they are used. This will be achieved by covering the following</p> <ul style="list-style-type: none"> • Explain key terms of database • Design and create a database table • Demonstrate how to use database tools • Explain the advantages and disadvantages of databases 	
Assessment	<p><u>Progress Check 1</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward</p>	<p><u>MILESTONE 1</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward. This will be based on the work that they have produced in Autumn term 1 and 2</p>	



Computing	
Topic	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><u>Unit 5 Networks</u></p> <p>This unit will look at the range of networks and how they are used. It will look at the protocols that are used and the advantages and disadvantages of networks. This will be achieved by doing the following:</p> <ul style="list-style-type: none"> • Explain the different types of networks and how they are used • Discuss the advantages and disadvantages of networks • Identify and explain different server protocols and how they are used </div> <div style="width: 48%;"> <p><u>Unit 10 Python</u></p> <p>They will use an command line interface to create programs based on a problem they will learn a range of skills which are as follows:</p> <ul style="list-style-type: none"> • Explain and demonstrate how to use basic python commands • Explain and demonstrate how to use variables in Python • Explain and demonstrate how to use integers in Python • Explain and demonstrate how to use IF Statements in Python • Explain and demonstrate how to use counter variables </div> </div>
Assessment	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><u>Progress Check 2</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward</p> </div> <div style="width: 48%;"> <p><u>MILESTONE 2</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be a range of questions in which they will have to use all there knowledge from Python to complete the task. They will be given a problem and will have to solve it they will have 3 hrs. to complete this task</p> </div> </div>



Computing	
Topic	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><u>Unit 10 Python</u></p> <p>They will use an command line interface to create programs based on a problem they will learn a range of skills which are as follows:</p> <ul style="list-style-type: none"> • Explain and demonstrate how to use basic python commands • Explain and demonstrate how to use variables in Python • Explain and demonstrate how to use integers in Python • Explain and demonstrate how to use IF Statements in Python <p>Explain and demonstrate how to use counter variables</p> </div> <div style="width: 48%;"> <p><u>Unit 11 Programming a Calculator</u></p> <p>In this unit pupils will look at creating programs for a calculator and linking multiple programs together. This will be achieved by pupils covering the following:</p> <ul style="list-style-type: none"> • Identify and design algorisms and Calculator questions in a paper format • Demonstrate how to follow designs in order to complete the above projects • Explain and Demonstrate e what variables and if statements are • Explain and Demonstrate how to link multiple programs together in order to create more complex programs • Analysis code so that it can be explained in detailed to show understanding </div> </div>
Assessment	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><u>Progress Check 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be a range of questions in which they will have to use all their knowledge from Python to complete the task. They will be given a problem and will have to solve it they will have 3 hrs. to complete this task</p> </div> <div style="width: 48%;"> <p><u>MILESTONE 3</u></p> <p>Approximate Date of Assessment Week Beginning:</p> <p>The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward</p> </div> </div>



Term	Topic	Assessment
Autumn 1	Unit 1 Cracking the code In this unit pupils will be looking into Encryption to give them a board overview of what it is and how it is used.	Progress Check 1 The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward
Autumn 2	Unit 3 Simple Databases In this unit people will develop their understanding of what databases are and how they are used.	Milestone 1 The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward
Spring 1	Unit 5 Networks This unit will look at the range of networks and how they are used. It will look at the protocols that are used and the advantages and disadvantages of networks.	Progress Check 1 The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward
Spring 2	Unit 10 Python They will use an command line interface to create programs based on a problem they will learn a range of skills	Milestone 1 The assessment will be a range of questions in which they will have to use all their knowledge from Python to complete the task. They will be given a problem and will have to solve it they will have 3 hrs. to complete this task
Summer 1	Unit 10 Python They will use an command line interface to create programs based on a problem they will learn a range of skills	Progress Check 1 The assessment will be a range of questions in which they will have to use all their knowledge from Python to complete the task. They will be given a problem and will have to solve it they will have 3 hrs. to complete this task
Summer 2	Unit 11 Programming a Calculator In this unit pupils will look at creating programs for a calculator and linking multiple programs together.	Milestone 1 The assessment will be judge on the classwork that they have produced and provide them with written targets in order to support them to move forward